



PRODUCTCATALOGUE 2015

Proven and in demand for decades



Engineering for progress

Today's metal fabricating industry is more sophisticated and complex than ever before. It stands to reason that the products used as consumables must represent the state of the art in their respective requirements. The ITW corporate logo identifies a group of enterprises with international presence and solid competence in a variety of areas. Their combined expertise results in cutting edge solutions meeting the needs of MRO specialists in industry and trade.

**DIN ISO 9001
certified**

Certifications breeds confidence

Quality at ITW is more than just a marketing slogan. All our company processes are certified by the German Industrial Standards Institute (DIN). This gives users the guarantee that our products meet high standards and are safe to use. This is signed and sealed.



ITW: Extended competence

VARYBOND®, CRAMOLIN®, ROCOL® und SCRUBS® are brands fostered by the major international ITW company. It unites many top companies in the fields of technology and industry. For customers this means concentrated resources in the areas of manufacture, research, procurement and sales. With advantages in the quality, practicality, product documentation, availability and price. Our strengths are ultimately your benefits.



VARYBOND®

Locking, bonding and sealing

CRAMOLIN®

Solutions from research to production

ROCOL®

Occupational health and safety

SCRUBS®

The ultrastrong hand cleaner towel for maintenance, repair and overhaul



Safety
Data Sheet



Technical
Data Sheet

Safety is a huge priority

Application safety and work safety are in good hands with ITW. Material safety data sheets and technical data sheets are available on the Internet at www.itwcp.de for downloading. It leaves no detailed questions open. No other manufacturer offers more.



Environmental prediction

A part of our philosophy

Chemical substances must be handled responsibly. ITW ensures that the raw materials are largely environmentally-friendly. An active ingredient which has little or no harmful effect is used wherever possible. ITW develops and researches for the preservation and prediction of our natural environment.

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Anaerobic adhesives



VARYBOND® 12-22

Low strength thread locking compound

General purpose product of average viscosity. Ideal for thread connections requiring easy disassembly. Max. thread diameter of M36, and max. thread reach of 2x thread diameter. Also used for securing metering or adjusting screws with fine thread.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 12-22

Colour	purple
Thread size	thru M36
Cured strength	low
Gap filling width	thru 0.2 mm
Final strength	1 – 3 hours
Breakaway torque	4 – 7 Nm (M10)
Viscosity mPas	
Spindle RPM 2 / 20	800 – 1.200
Density	1.09 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 12-41

Medium strength thread locking compound

General purpose product for medium strength threaded connections. Also suitable for fine thread applications. Assembled parts are easily removed using standard tools.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 12-41

Colour	blue
Thread size	thru M12
Cured strength	medium
Gap filling width	thru 0.15 mm
Final strength	1 – 3 hours
Breakaway torque	~ 15 Nm
Viscosity mPas	
Spindle RPM 1 / 20	100 – 150
Density	1.12 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 12-42

Medium strength thread locking compound

General purpose product for a diversity of applications, featuring excellent thermal stability and media resistance. Especially suitable for use with stainless and electroplated fasteners. Relatively unaffected by surface contamination. Quick hardening, also on stainless steel and passivated surfaces. Conforms to DIN EN 751-1.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 12-42

Colour	blue
Thread size	thru M36
Cured strength	medium
Gap filling width	thru 0.25 mm
Final strength	0.5 – 1 hour
Breakaway torque	~ 21 Nm
Viscosity mPas	
Spindle RPM 1 / 20	5.000 – 7.000
Spindle RPM 3 / 20	1.500 – 2.500
Density	1.12 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 12-43

Medium strength thread locking compound

General purpose product for a diversity of applications, featuring excellent thermal stability and media resistance. Especially suitable for use with stainless and electroplated fasteners. Gap filling properties due to higher viscosity. Quick hardening, also on stainless steel and passivated surfaces. Conforms to DIN EN 751-1.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 12-43

Colour	blue
Thread size	thru M36
Cured strength	medium
Gap filling width	thru 0.25 mm
Final strength	0.5 – 1 hour
Breakaway torque	14 – 22 Nm
Viscosity mPas	
Spindle RPM 6 / 20	6.500 – 8.500
Spindle RPM 6 / 100	2.800 – 4.500
Density	1.1 g / cm ³
Temperature range	-55° C to +150° C

Anaerobic adhesives



VARYBOND® 12-45

Medium strength thread locking compound

General purpose product featuring excellent media resistance and thermal stability. Especially suited for use with stainless and electroplated fasteners. Relatively unaffected by surface contamination. Hardens quickly, also on stainless steel and passivated surfaces.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 12-45

Colour	blue
Thread size	thru M36
Cured strength	medium
Gap filling width	thru 0.25 mm
Final strength	0.5 – 1 hour
Breakaway torque	~ 21 Nm
Viscosity mPas	
Spindle RPM 1 / 20	5.000 – 7.000
Spindle RPM 3 / 20	1.500 – 2.500
Density	1.12 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 12-62

High strength thread locking compound

Mainly used for dedicated applications in high load securing of threaded connections. Ensures permanent installation of stud bolts. Resists disassembly by means of standard tools.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 12-62

Colour	red
Thread size	thru M36
Cured strength	high
Gap filling width	thru 0.25 mm
Final strength	2 – 4 hours
Breakaway torque	20 – 24 Nm (M10)
Viscosity mPas	
Spindle RPM 3 / 2,5	5.000 – 7.000
Spindle RPM 3 / 20	1.200 – 1.800
Density	1.11 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 12-71

High strength thread locking compound

Thread locking compound for general purpose applications. Specially formulated for highstrength threaded connections. Used in installations of stud bolts and ball and roller bearings that do not normally require subsequent removal.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 12-71

Colour	green
Thread size	thru M20
Cured strength	high
Gap filling width	thru 0.15 mm
Final strength	1 – 3 hours
Breakaway torque	> 30 Nm (M10)
Viscosity mPas	
Spindle RPM 2 / 20	400 – 600
Density	1.11 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 12-75

Heat resistant thread locking compound

High strength product for heavy duty and temperature resistant threaded connections and pipe thread seals. Secures and seals cap screws, stud bolts, nuts and threaded inserts. Protects against impact, vibration, and corrosion. High viscosity provides additional gap filling properties. Depending on thread diameter, breakout or removal is difficult to ineffective.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 12-75

Colour	red
Thread size	thru M36
Cured strength	high and heat resistant
Gap filling width	thru 0.20 mm
Final strength	3 – 6 hours
Breakaway torque	> 23 Nm (M10)
Viscosity mPas	
Spindle RPM 4 / 20	8.000 – 12.000
Density	1.1 g / cm ³
Temperature range	-55° C to +200° C

Anaerobic adhesives



VARYBOND® 12-90

Thread locking compound capillary action

Used for post installation securing of small screws and cylindrical parts. Ideal for housing screws, adjusting, and carburetor screws, etc. Capillary action allows the product to wick into pin porosities, micropores and hairline cracks, reliably sealing diecast housings and welding seams.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 12-90

Colour	green
Thread size	thru M5
Cured strength	medium to high
Gap filling width	thru 0.07 mm
Final strength	0,5 – 1 hour
Breakaway torque	18 – 23 Nm (M10)
Viscosity mPas	
Spindle RPM 1 / 20	10 – 20
Density	1.07 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 15-42

Medium strength hydraulic sealant

Quick hardening, solvent resistant anaerobic adhesive for sealing pneumatic and hydraulic connections. Pressure resistant up to burst pressure. Applications in machine manufacture, automotive service, on construction equipment and agricultural machinery.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 15-42

Colour	brown
Consistency	liquid, hardening
Hardening system	anaerobic
Thread size	max. R 3/4"
Cured strength	medium
Gap filling width	thru 0.15 mm
Final strength	1 – 3 hours
Breakaway torque	14 – 20 Nm (M10)
Viscosity mPas	
Spindle RPM 2 / 20	500 – 700
Density	1.05 g / cm ³
Temperature range	-55° C to +150° C
Material to be sealed	Metal



VARYBOND® 15-72

PTFE pipe thread sealant

PTFE-filled adhesive with a low friction coefficient. Specially formulated for easy disassembly of coarse-threaded joints on metal pipes requiring slow pipe sealant hardening. Suitable in particular for pipe joints with tapered or cylindrical threads (e.g., Whitworth B.S.P. threads) to DIN 2999. This flexible and chemicalresistant adhesive features a ductile yield before breakage in excess of 100%. Conforms to DIN EN 751-1.

Packaging size 50 ml
Units / Carton 6 Bellows
Item Nr. VA3 15-72

Colour	white
Consistency	liquid, hardening
Hardening system	anaerobic
Thread size	max. R 3" (M80)
Cured strength	low
Gap filling width	thru 0.30 mm
Final strength	1 – 3 hours
Breakaway torque	5 – 8 Nm (M10)
Viscosity mPas	
Spindle RPM 6 / 2,5	40.000 – 60.000
Spindle RPM 6 / 20	15.000 – 20.000
Density	1.0 g / cm ³
Temperature range	-55° C to +150° C
Material to be sealed	Metal



VARYBOND® 15-77

Pipe thread sealant with potable water approval

General purpose pipe thread sealant for all types of tapered and cylindrical pipe thread joints. Seals instantly at low pressure. Approved for use with drinking water installations, and naturalgas resistant. Application in sprinkler systems, gas fitting installations, etc. Conforms to DIN EN 751-1 (DVGW).

Packaging size 50 ml
Units / Carton 6 Bellows
Item Nr. VA3 15-77

Colour	fluorescent yellow
Consistency	liquid, hardening
Hardening system	anaerobic
Thread size	max. R 3" (M80)
Cured strength	medium
Gap filling width	thru 0.50 mm
Final strength	1 – 3 hours
Breakaway torque	15 – 20 Nm (M10)
Viscosity mPas	
Spindle RPM 6 / 2,5	60.000 – 80.000
Spindle RPM 6 / 20	20.000 – 30.000
Density	1.05 g / cm ³
Temperature range	-55° C to +150° C
Material to be sealed	Metal

Anaerobic adhesives



VARYBOND® 15-86

High strength pipe thread sealant

General purpose product with specific suitability for high strength pipe thread connections requiring high temperature and media resistance. Also used to install stud bolts. Provides gap bridging properties. Conforms to DIN EN 751-1 (DVGW).

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 15-86

Colour	fluorescent red
Consistency	liquid, hardening
Hardening system	anaerobic
Thread size	max. R 2"
Cured strength	high
Gap filling width	thru 0.30 mm
Final strength	6 – 12 hours
Breakaway torque	25 – 35 Nm (M10)
Viscosity mPas	
Spindle RPM 4 / 20	6.000 – 7.000
Density	1.1 g / cm ³
Temperature range	-55° C to +150° C
Material to be sealed	Metal



VARYBOND® 15-73

Low strength surface gasketing

Seals all rigid metallic flanges and surfaces, especially on aluminium diecast or cast steel components. The product's low strength ensures easy parts removal. Quick and easy application with paint roller or screen printing. The gasket film features a ductile yield before breakage in excess of 100%.

Packaging size 50 ml
Units / Carton 6 Bellows
Item Nr. VA3 15-73

Colour	fluorescent green
Gasket type	liquid
Flange type	rigid
Hardening system	anaerobic
Sealing properties	excellent
Cured strength	low
Oil, water, glycol resistance	excellent
Gap filling width	thru 0.30 mm
Final strength	3 – 6 hours
Tensile strength	2 – 4 N / sq. mm
Viscosity mPas	
Spindle RPM 6 / 2,5	40.000 – 60.000
Spindle RPM 6 / 20	15.000 – 25.000
Density	1.05 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 15-18

Medium strength flexible surface sealer

Used for sealing dimensionally stable flange connections. Specially formulated for sealing aluminium flanges or joints of dissimilar metals. Drip-free, i.e., the product can be applied to vertical surfaces or in overhead situations. Product film compensates for peak-to-valley surface roughness. Medium resistance to disassembly. Seals instantly to contain low pressures. Retains slight flexibility up to a temperature of +120°C.

Packaging size 50 ml
Units / Carton 6 Bellows
Item Nr. VA3 15-18

Colour	red
Gasket type	liquid
Flange type	rigid
Hardening system	anaerobic
Sealing properties	excellent
Cured strength	medium
Oil, water, glycol resistance	excellent
Gap filling width	thru 0.50 mm
Final strength	1 – 3 hours
Tensile strength	4 – 12 N / sq. mm
Viscosity mPas	
Spindle RPM 0,5	800.000 – 1.000.000
Spindle RPM 5	200.000 – 300.000
Density	1.1 g / cm ³
Temperature range	-55° C to +150° C

Anaerobic adhesives



VARYBOND® 15-74

Medium strength surface gasketing

Rapid hardening general purpose surface gasketing compound for flanges and surfaces, especially suitable for application on inactive metals. Semi flexible. Higher viscosity provides improved gap filling properties. The product's low adhesive strength ensures easy parts removal. Quick and easy application by means of paint roller or screen printing. The gasket film withstands a ductile yield before breakage in excess of 100%.

Packaging size 50 ml
Units / Carton 6 Bellows
Item Nr. VA3 15-74

Colour	fluorescent
Gasket type	liquid
Flange type	rigid / flexible
Hardening system	anaerobic
Sealing properties	excellent
Cured strength	medium
Oil, water, glycol resistance	excellent
Gap filling width	thru 0.50 mm
Final strength	3 – 6 hours
Tensile strength	8 – 10 N / sq. mm
Viscosity mPas	
Spindle RPM 6 / 2,5	80.000 – 120.000
Spindle RPM 6 / 20	30.000 – 40.000
Density	1.05 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 15-10

High strength surface gasketing

Suitable as an alternative to solid gasket materials in flange connections and transmission housings. The product excels through its high resistance to water, gas, oil, LPG, and a host of technical chemicals. Provides dependable high temperature sealing properties, plus extrahigh impact and vibration resistance.

Packaging size 50 ml
Units / Carton 6 Bellows
Item Nr. VA3 15-10

Colour	fluorescent
Gasket type	liquid
Flange type	rigid
Hardening system	anaerobic
Sealing properties	excellent
Cured strength	high
Oil, water, glycol resistance	excellent
Gap filling width	thru 0.50 mm
Final strength	3 – 6 hours
Tensile strength	6 – 8 N / sq. mm
Viscosity mPas	
Spindle RPM 7 / 0,5	300.000 – 1.000.000
Spindle RPM 7 / 5	200.000 – 300.000
Density	1.05 g / cm ³
Temperature range	-55° C to +200° C



VARYBOND® 16-41

Medium strength assembly cement

General purpose adhesive for fixing bushed bearings and shaft-mounted gears. Replaces mechanical securing elements such as feather keys or wedges.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 16-41

Colour	yellow
Cured strength	medium
Hardening system	anaerobic
Thread size	thru M12
Final strength	30 – 40 minutes
Gap filling width	0.15 mm
Viscosity mPas	
Spindle RPM 1 / 20	500 – 600
Density	1.07 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 16-03

High strength assembly cement

Particularly suitable for fixing shafts, bearings, sleeves and gears in as-supplied condition, i.e., without requiring prior cleaning. Also installs ball bearings and oilimpregnated bronze bushings. Excellent hardening properties even at lower temperatures and on passive metal surfaces.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 16-03

Colour	green
Cured strength	high
Hardening system	anaerobic
Thread size	thru M12
Final strength	30 – 40 minutes
Gap filling width	0.15 mm
Viscosity mPas	
Spindle RPM 1 / 20	100 – 150
Density	1.07 g / cm ³
Temperature range	-55° C to +150° C

Anaerobic adhesives



VARYBOND® 16-38

High strength assembly cement

Quick hardening and suitable for highest static shearing stresses as well as dynamic loads. For allround applications in fixing gears and belt pulleys on shafts and armatures on electric motor spindles.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 16-38

Colour	fluorescent
Cured strength	high
Hardening system	anaerobic
Thread size	thru M36
Final strength	0.5 – 1 hour
Gap filling width	0.2 mm
Breakaway torque	> 40 Nm
Viscosity mPas	
Spindle RPM 3 / 20	2.000 – 3.000
Density	1.1 g / cm ³
Temperature range	-55° C to +150° C



VARYBOND® 16-40

High strength assembly cement

Slow hardening anaerobic adhesive providing excellent thermal resistance. Particularly suitable for retaining cylindrical components in press fit or shrink fit installations.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 16-40

Colour	fluorescent
Cured strength	high
Hardening system	anaerobic
Thread size	thru M20
Final strength	12 – 24 hours
Gap filling width	0.15 mm
Breakaway torque	> 25 Nm
Viscosity mPas	
Spindle RPM 2 / 20	400 – 600
Density	1.1 g / cm ³
Temperature range	-55° C to +175° C



VARYBOND® 16-20

High strength heat resistant assembly cement

Extremely resistant against elevated temperatures. This product provides high strength fixation and retention of cylindrical parts in close sliding fit installations.

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 16-20

Colour	green
Cured strength	high
Hardening system	anaerobic
Thread size	thru M36
Final strength	1 – 3 hours
Gap filling width	0.20 mm
Breakaway torque	> 25 Nm
Viscosity mPas	
Spindle RPM 4 / 20	8.000 – 12.000
Density	1.1 g / cm ³
Temperature range	-55° C to +200° C



VARYBOND® 16-48

High strength heat resistant assembly cement

Quick hardening high strength product for the assembly of cylindrical parts, including cylinder liners in engine blocks. Features excellent thermal resistance, and high resistance to acids and alkaline (caustic) solutions. Excellent adhesion properties on smooth surfaces. Conforms to DIN EN 751-1 (DVGW).

Packaging size 50 ml
Units / Carton 10 Bottles
Item Nr. VA3 16-48

Colour	fluorescent
Cured strength	high
Hardening system	anaerobic
Thread size	thru M20
Final strength	0.5 – 1 hour
Gap filling width	0.15 mm
Breakaway torque	> 30 Nm
Viscosity mPas	
Spindle RPM 2 / 20	400 – 600
Density	1.1 g / cm ³
Temperature range	-55° C to +175° C

Cyanoacrylat adhesives



VARYBOND® 14-06

Elastomer adhesive

Standard product type for quick and easy adhesion of all common types of elastomers (from solid rubber to closedcell sponge), and particularly styrene-butadiene rubber (SBR) and ethylen-propylenelastomer (EPDM). High resistance to ageing and effects of climate. When used with Primer L, it handles even difficult-to-adhere plastics with ease.

Packaging size	20 / 50 g
Units / Carton	12 Bottles (20 g) 10 Bottles (50 g)
Item Nr.	20 g VC3 14-06 50 g VC4 14-06

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	20 – 30 s
SBR / SBR	2 – 4 s
Polycarb. / Polycarb.	3 – 6 s
EPDM / EPDM	1 – 3 s
Final strength	24 hours
Viscosity mPas	15 – 30
Density	1.05 g / cm ³
Colour	transparent
Formulated for	Plastics



VARYBOND® 14-15

Plastic adhesive

Excellent adhesive properties when mating materials with different expansion coefficients. Product viscosity makes it ideal for working with porous materials. Also used on leather, cork, wood, etc.

Packaging size	20 / 50 g
Units / Carton	12 Bottles (20 g) 10 Bottles (50 g)
Item Nr.	20 g VC3 14-15 50 g VC4 14-15

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	50 – 70 s
SBR / SBR	5 – 8 s
Polycarb. / Polycarb.	8 – 12 s
EPDM / EPDM	5 – 8 s
Final strength	24 hours
Viscosity mPas	1.000 – 1.300
Density	1.08 g / cm ³
Colour	transparent
Formulated for	Metals / Plastics



VARYBOND® 14-38

Plastic adhesive

Quick hardening cyanoacrylate adhesive. Broadband product properties make it suitable for a wide range of applications, especially when a variety of dissimilar plastics need to be joined.

Packaging size	20 / 50 g
Units / Carton	12 Bottles (20 g) 10 Bottles (50 g)
Item Nr.	20 g VC3 14-38 50 g VC4 14-38

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	30 – 40 s
SBR / SBR	2 – 4 s
Polycarb. / Polycarb.	3 – 5 s
EPDM / EPDM	1 – 3 s
Final strength	24 hours
Viscosity mPas	20 – 40
Density	1.06 g / cm ³
Colour	transparent
Formulated for	Plastics



VARYBOND® 14-205

Plastic adhesive

Excellent adhesive for joining materials with different expansion coefficients. Product viscosity makes it ideal for application on porous materials.

Packaging size	20 / 50 g
Units / Carton	12 Bottles (20 g) 10 Bottles (50 g)
Item Nr.	20 g VC3 14-205 50 g VC4 14-205

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	20 – 35 s
SBR / SBR	3 – 6 s
Polycarb. / Polycarb.	8 – 10 s
EPDM / EPDM	4 – 8 s
Final strength	24 hours
Viscosity mPas	3 – 10
Density	1.06 g / cm ³
Colour	transparent
Formulated for	Plastics

Cyanoacrylat adhesives



VARYBOND® 14-01

General purpose adhesive

General purpose, medium viscosity adhesive for a broad range of applications, including all types of materials pairings, such as metals, plastic, paper, leather and wood.

Packaging size	20 / 50 / 500 g
Units / Carton	12 Bottles (20 g) 10 Bottles (50 g) 4 Bottles (500 g)
Item Nr.	20 g VC3 14-01 50 g VC4 14-01 500 g VC5 14-01

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	40 – 60 s
SBR / SBR	2 – 4 s
Polycarb. / Polycarb.	8 – 12 s
EPDM / EPDM	4 – 8 s
Final strength	24 hours
Viscosity mPas	80 – 110
Density	1.06 g / cm ³
Colour	transparent
Formulated for	general purpose



VARYBOND® 14-35

General purpose adhesive

Particularly well suited to porous materials and rough and uneven surfaces. Excellent gap filling properties. For bonding ceramics, ferrites, sintered metals, wood, cork, leather, textiles, etc.

Packaging size	20 / 50 / 500 g
Units / Carton	12 Bottles (20 g) 10 Bottles (50 g) 4 Bottles (500 g)
Item Nr.	20 g VC3 14-35 50 g VC4 14-35 500 g VC5 14-35

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	50 – 70 s
SBR / SBR	7 – 10 s
Polycarb. / Polycarb.	15 – 22 s
EPDM / EPDM	8 – 12 s
Final strength	24 hours
Viscosity mPas	1.800 – 2.200
Density	1.09 g / cm ³
Colour	transparent
Formulated for	porous materials, rough surfaces



VARYBOND® 14-96

General purpose adhesive

General purpose medium viscosity adhesive for a broad range of applications, including all types of materials pairings.

Packaging size	5 / 20 / 50 / 500 g
Units / Carton	16 Bottles (5 g) 12 Bottles (20 g) 10 Bottles (50 g) 4 Bottles (500 g)
Item Nr.	5 g VC05 14-96 20 g VC3 14-96 50 g VC4 14-96 500 g VC5 14-96

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	40 – 60 s
SBR / SBR	2 – 4 s
Polycarb. / Polycarb.	8 – 12 s
EPDM / EPDM	4 – 8 s
Final strength	24 hours
Viscosity mPas	80 – 110
Density	1.06 g / cm ³
Colour	transparent
Formulated for	general purpose



VARYBOND® 14-93

Plastic adhesive

Excellent adhesive for joining materials with different expansion coefficients. Product viscosity makes it ideal for application on porous materials.

Packaging size	20 / 50 g
Units / Carton	12 Bottles (20 g) 10 Bottles (50 g)
Item Nr.	20 g VC3 14-93 50 g VC4 14-93

Temperature range	-30° C to +80° C
Final strength	
Alu / Alu	20 – 35 s
SBR / SBR	3 – 6 s
Polycarb. / Polycarb.	8 – 10 s
EPDM / EPDM	4 – 8 s
Final strength	24 hours
Viscosity mPas	3 – 10
Density	1.06 g / cm ³
Colour	transparent
Formulated for	Plastics

Cyanoacrylat adhesives

General purpose



VARYBOND® 14-54 GEL

General purpose with a high viscosity

Excellent gap filling. Perfect to use overhead. For bonding ceramics, ferrites, metals, plastic, wood, cork, leather.

Packaging size	20 ml
Units / Carton	12 Tubes
Item Nr.	VC03 14-54

Temperature range	-30° C to +78° C
Final strength	
Alu / Alu	90 – 110 s
SBR / SBR	18 – 24 s
Polycarb. / Polycarb.	22 – 25 s
EPDM / EPDM	25 – 35 s
Final strength	24 hours
Viscosity mPas	jellylike, thixotroph
Density	1.08 g / cm ³
Colour	transparent
Formulated for	general purpose

Odourless



VARYBOND® 14-60

Odourless adhesive

Odourless non blooming cyanoacrylate adhesive. For all applications in which an adhesive may not leave visible traces.

Packaging size	20 / 50 / 500 g
Units / Carton	12 Bottles (20 g)
	10 Bottles (50 g)
	4 Bottles (500 g)
Item Nr.	20 g VC3 14-60
	50 g VC4 14-60
	500 g VC5 14-60

Temperature range	-30° C to +100° C
Final strength	
Alu / Alu	90 – 110 s
SBR / SBR	7 – 11 s
Polycarb. / Polycarb.	25 – 35 s
EPDM / EPDM	5 – 8 s
Final strength	24 hours
Viscosity mPas	50 – 90
Density	1.07 g / cm ³
Colour	transparent
Formulated for	Plastics

Black



VARYBOND® 14-80

Black Adhesive

Black cyanoacrylate adhesive, which has been developed for all applications under thermal and / or climatic conditions. The product shows excellent resistance against dynamic loads like impacts or vibrations. Due to its short-term temperature resistance up to 140° C, it is also suitable for SMD technique, wherelater soldering bath is requested. The black colour allows the use in loudspeaker applications, too.

Packaging size	50 / 500 g
Units / Carton	10 Bottles (50 g)
	4 Bottles (500 g)
Item Nr.	50 g VC4 14-80
	500 g VC5 14-80

Temperature range	-30° C to +120° C
Final strength	
Alu / Alu	25 – 45 s
SBR / SBR	10 – 15 s
EPDM / EPDM	14 – 20 s
Final strength	24 hours
Viscosity mPas	100 – 200
Density	1.06 g / cm ³
Colour	black
Formulated for	Metal / Plastics

NDT – Non destructive materials testing



VARYBOND® NDT 1

Special purpose cleaner

Highly effective cleaner and penetrant remover for fast, non destructive testing of surfaces, e.g. welded surfaces, castings / forgings and fabrications. According to: AMS 2644, EN ISO 3452-2, ASME B & PV Code, Sec V, EN 571-1 ASTM E 1417, ASTM E-165, MIL STD 271.

Packaging size 500 ml
Units / Carton 12 Aerosol
Item Nr. 196171VAR

Description	Aerosol
Product Base	solvent
Colour	transparent
Compatibility with materials	very good



VARYBOND® NDT 2

Red penetrant

Red dye penetrant for fast, non destructive testing of surfaces, e.g. welded surfaces, castings / forgings and fabrications. According to: AMS 2644, EN ISO 3452-2, ASME B & PV Code, Sec V, EN 571-1, ASTM E 1417, ASTM E-165, MIL STD 271.

Packaging size 500 ml
Units / Carton 12 Aerosol
Item Nr. 197171VAR

Description	Aerosol
Product Base	solvent, colorant, wetting agent
Colour	red
Compatibility with materials	very good



VARYBOND® NDT 3

White developer

Quick drying developer for fast non destructive testing of surfaces, e.g. welded surfaces, castings / forgings and fabrications. According to: AMS 2644, EN ISO 3452-2, ASME B & PV Code, Sec V, EN 571-1, ASTM E 1417, ASTM E-165, MIL STD 271, McDonnell Douglas PS-2120, BAC 5423.

Packaging size 500 ml
Units / Carton 12 Aerosol
Item Nr. 198171VAR

Description	Aerosol
Product Base	solvent, white pigmentation
Colour	white
Compatibility with materials	very good

Structural bonding



VARYBOND® 1-Minute Epoxy Gel

Lightning fast hardening adhesive gel for filling gaps, cracks, and holes. Produces a solid bond within one minute. Drip-free application on vertical surfaces or when working overhead. Ideal for repairs on furniture parts, jewellery, china, model-building components of metal, glass or ceramic. Super fast acting thixotropic all purpose adhesive.

Packaging size	50 ml
Units / Carton	12 Cartridges
Item Nr.	500121VAR

Colour	transparent
Temperature range	-40° C to +93° C
Hardening system	two-component
Tack-free to touch	4 minutes
Consistency	thixotropic



VARYBOND® 5-Minute Epoxy Gel

Quick hardening product for standard bonding and retaining applications. Rapidly produces rigid and permanent joints between substrates such as metals, glass, ceramics, concrete and wood, within 5 minutes or less. Particularly suited to quick metal-to-metal connections, with excellent bonding even on dissimilar material pairs. Also ideal for sealing and encapsulation of electronic components.

Packaging size	25 / 50 ml
Units / Carton	20 Twin barrel syringes (25 ml) 12 Cartridges (50 ml)
Item Nr.	25 ml 501117VAR 50 ml 502121VAR

Colour	transparent
Temperature range	-40° C to +93° C
Hardening system	two-component
Tack-free to touch	45 minutes
Consistency	medium viscosity



VARYBOND® 2 Ton Epoxy

Extreme strength, water resistant adhesive product. Produces rigid connections on metal, ceramics, wood, concrete, glass, and any combination of these materials. Fills surfaces with otherwise poor bonding characteristics and hardens without shrinking. Excellent impact resistance. Particularly suitable for glass-clear joints featuring high vibration and water resistance. Provides moisture resistant encapsulation for electronic components.

Packaging size	50 ml
Units / Carton	12 Cartridges
Item Nr.	503121VAR

Colour	transparent
Temperature range	-40° C to +93° C
Hardening system	two-component
Tack-free to touch	2 hours
Consistency	medium viscosity

Structural bonding



VARYBOND® Epoxy-Plus

Rubber filled structural adhesive with above average resistance to peeling, impact and wear. Bonds metals, compound materials, rigid plastics, concrete, glass and wood. 25-minute working window. This rubber-filled adhesive is particularly resistant to flaking, and features high impact and fatigue resistance. Especially suited to bonding applications on thermoplastics, duroplastics, metals, compound materials and ceramics.

Packaging size	50 ml
Units / Carton	12 Cartridges
Item Nr.	504121VAR

Colour	grey
Temperature range	-40° C to +93° C
Hardening system	two-component
Tack-free to touch	4 – 5 hours
Consistency	highly viscous

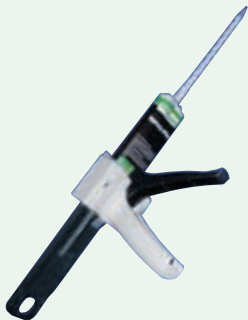


Mixer Jet

For the use with cartridges and the cartridge gun

Packaging size	1 piece
Units / Carton	20 mixers
Item Nr.	522000VAR

Length	15.3 cm
Colour	transparent



Cartridge gun

For adhesives which are supplied in two part, side-by-side syringe cartridges and push the adhesive through a static mixing nozzle. The lightweight portability and durable construction of the manual guns make them well suited for many assembly operations in various markets such as aerospace, electronics, construction and automotive.

Packaging size	1 piece
Units / Carton	1 piece
Item Nr.	520000VAR

Colour	grey / black
Material	Plastic
Mixer jet	optional
Suitable for	50 ml Cartridges

Structural bonding



VARYBOND® Primer F

Activator for anaerobic adhesives

Improves hardening properties when using anaerobic adhesives on galvanized and passivated surfaces. Intensifies the hardening process at low ambient temperatures.

Packaging size 100 ml
Units / Carton 20 pump sprays
Item Nr. 507133VAR

Description	Primer F
Colour	turquoise
Air dry time	short



VARYBOND® Primer L

Activator for cyanoacrylate adhesives

Applicable in situations where plastics with less than ideal bonding properties, e.g., polypropylene, PTFE, and thermoplastic elastomers, must be joined.

Packaging size 50 ml
Units / Carton 12 Aerosols
Item Nr. 509111VAR

Description	Primer L
Colour	transparent
Air dry time	none

Metal filled epoxy resins



VARYBOND® Magic Bond

Putty

Manually kneaded two-component product; ready-for-use consistency ensures easy handling. Also bonds on wet surfaces (even under water). Used to plug holes and repair leaks on porous sections of casting moulds. Repaired parts are again ready for machining or deployment within an hour.

Packaging size 114 g
Units / Carton 12 Bars
Item Nr. 511131VAR

Description	putty, hand-kneaded
Colour	grey
Temperature range	up to 121° C
Mixing ratio	inherent in product
Stays workable for	20 minutes
Hardening time	24 hours



ALWAYS HITS THE BULLS EYE

The brand new CRAMOLIN / VARYBOND Spraygun transforms your regular spraycan into a highly effective spray system. Suitable for all kinds of spray cans with a standardized spray head. This unique tool ensures that you only spray where you aim - no more over spray or dirty fingertips! Outstanding hygienic standards for all kinds of NSF-Applications and food areas.



CRAMOLIN
LÖSUNG PER KNOPFDRUCK

Corrosion protection, coatings and oils



VARYBOND® VB 27

Dark zinc-spray

High zinc content provides particularly thorough corrosion protection. Suitable for application on all ferrous metal parts. Outstanding primer coat for all types of enamels and paints.

Packaging size 400 ml
Units / Carton 12 Aerosols
Item Nr. 127161VAR

Description	Aerosol
Colour	grey, matte
Pigments	Zinc
Temperature range	up to 450° C
Tack-free to touch	after 15 – 20 minutes
Salt spray test	600 – 800 hours



VARYBOND® VB 83

Bright zinc-spray

Excellent galvanized-quality corrosion protection wherever a bright, silvery colour is desired. Particularly suited to ferrous parts in construction, on vehicles, and for repairs of damaged hotdipped parts.

Packaging size 400 ml
Units / Carton 12 Aerosols
Item Nr. 183161VAR

Description	Aerosol
Colour	silver, glossy
Pigments	Aluminium / Zinc
Temperature range	up to 350° C
Tack-free to touch	after 15 – 20 minutes
Salt spray test	2000 hours



VARYBOND® VB 84

Aluminium-spray

General purpose coating for all metallic materials. Ideal for application on automotive exhaust systems, heating radiators, machine parts, etc.

Packaging size 400 ml
Units / Carton 12 Aerosols
Item Nr. 184161VAR

Description	Aerosol
Colour	silver, glossy
Pigments	Aluminium
Temperature range	up to 700° C
Tack-free to touch	after 15 – 20 minutes
Salt spray test	800 hours



VARYBOND® VB 63

Rustprotection – temporary

For application also on moist surfaces. Reliably protects all types of metals and alloys. Transparent corrosion protection, excellent flow properties and surface adhesion, low surface tension. Particularly suitable for protecting semifinished products, spare parts, gears, ball bearings, shafts, etc. Meets: MIL Specs C-81309E, C-372C, A-A-50493.

Packaging size 400 ml
Units / Carton 12 Aerosols
Item Nr. 163161VAR

Description	Aerosol
Colour	blue-green
Product base	Mineral oil
Indoor protection	up to 1 year

Corrosion protection, coatings and oils



VARYBOND® VB 86

Rustprotection – longterm

Provides heavy-duty corrosion protection. Multiple coats for particularly long-lasting effectiveness. Can be used on all metal parts, gives outstanding protection for marine transport and salt-bearing environments.

Packaging size 400 ml
Units / Carton 12 Aerosols
Item Nr. 186161VAR

Description	Aerosol
Colour	amber / transparent
Product base	Mineral oil with corrosion protection
Tack-free to touch	after 3 – 4 hours
Indoor protection	up to 3 years



VARYBOND® VB 80

Drilling and cutting spray

High-class drilling and cutting oil for general use in all metal cutting works, for example drilling, cutting, sawing, turning or milling. Provides excellent cutting and lubricating effects, allowing a higher cutting rate at a shorter handling time and a lesser abrasion.

Packaging size 500 ml
Units / Carton 12 Aerosols
Item Nr. 180161VAR

Colour	yellow
Mixture	Paraffinic hydrocarbons
Density	0.79 [g / cm ³] at 20° C
Viscosity	14 – 19 mm ² / s (at 40° C)
Scent	solvent

NEW



VARYBOND® VB 35

Spray Polisher

Multi-purpose spray for cleaning, polishing and sealing smooth surfaces. Spray Polisher leaves behind a long-lasting protective layer, preventing oxidation and corrosion. Has an anti-static, dust- and dirt-repellent effect.

Packaging size 400 ml
Units / Carton 12 Aerosols
Item Nr. 135161VAR

Colour	fawn
Basis	Polishing gel
Density	0.68 [g / cm ³] at 20° C
Flammable	Extremely flammable
Evaporation	slow
Compatibility with materials	very good

Tap Free Fluid



Special purpose lubricant for tapping, thread cutting, drilling, milling and lathe work. Works with all metals except aluminium. Water based emulsion improves finished workpiece appearance and extends tool service life.

Packaging size 250 ml
Units / Carton 1 Can
Item Nr. 194150VAR

Description	Emulsion
Colour	white

Cleaners and degreasers



VARYBOND® VB 02

Brake & assembly cleaner

Ideal for surface preparation of bonding or sealing surfaces. Particularly suitable for quick removal of oil, contaminants and brake dust from disk brakes and brake components such as brake blocks, rotors, anchor plates and brake shoes. The product is also preferred as a conditioner for surfaces to be painted or bonded. Due to rapid evaporation, short-term exposure will not irritate skin affect rubber parts or brake seals.

Packaging size 500 ml¹⁾
Units / Carton 12 Aerosols
Item Nr. 188171VAR

Description	Aerosol
Colour	transparent
Evaporation	rapid
Residue	none



VARYBOND® VB 05

Electronic cleaner

Equally at home in electrical and electronic applications. Ideal spray cleaner for contacts, equipment and components. Particularly suitable for use on switches, electric motors, relays, contactors and housings. Highly effective solvent concentrate ensure the safe removal of soiling and grease accumulations. Evaporates without leaving residues.

Packaging size 400 ml
Units / Carton 12 Aerosols
Item Nr. 105161VAR

Description	Aerosol
Colour	transparent
Residue	none
Evaporation	medium fast
Compatibility with materials	good



VARYBOND® VB 06

Degreaser

Heavy-duty spray cleaner removes heavy accumulations of greasy deposits of all types. Especially suitable for cleanup prior to re-lubrication on machine screws, bolts, axles, ball bearings, housings, gears and drive chains.

Packaging size 400 ml¹⁾
Units / Carton 12 Aerosols
Item Nr. 106161VAR

Description	Aerosol
Colour	transparent
Evaporation	slow
Compatibility with materials	good
Residue	none



VARYBOND® VB 32

Foamcleaner

Effective removal of dust, grease, dirt, and nicotine deposits on CRT monitor screens, plastic housings, keyboards and surfaces of all types. Use of product creates antistatic effect that delays new contaminant precipitation. Also safe for use on displays and TFT flat-screens.

Packaging size 400 ml
Units / Carton 12 Aerosols
Item Nr. 132161VAR

Description	Aerosol
Colour	clear liquid, white foam
Foam stability	excellent
Compatibility with materials	excellent

¹⁾ Additional package sizes available upon request

Cleaners and degreasers



VARYBOND® VB 34

Label remover

Effortless removal of paper labels and adhesives residues. For use on almost all surfaces. Exception: polystyrene.

Packaging size 400 ml¹⁾
Units / Carton 12 Aerosols
Item Nr. 134161VAR

Description	Aerosol
Colour	transparent
Scent	orange



VARYBOND® VB 70

Gasket remover

Lifts baked-on and driedout gaskets and gasketing compounds within 10 – 15 minutes. Removes adhesive residues, oil-carbon deposits, resins, tar, gummy lubricant residues from a variety of materials: Metals, wood, ceramics, glass, polyethylene and polypropylene. Not suitable for use of PVC, sensitive plastics, synthetics, linoleum and plastic tiles.

Packaging size 400 ml
Units / Carton 12 Aerosols
Item Nr. 170161VAR

Description	Aerosol
Colour	white
Scent	orange



VARYBOND® VB 82

Biodegradable degreaser

All purpose cleaner degreaser for industry and trade. Used on all areas and components that can be flushed with water. Ideal for cleaning machinery, equipment, engines, vehicles, tools, garage floors, oil separators, fork lifts. The product is biodegradable, solvent-free and non-flammable.

Units / Carton 12 Sprays (600 ml)
 4 Canisters (5 l)
 1 Canister (25 l)
Item Nr. 600 ml 182181VAR
 5 l 182854VAR
 25 l 182860VAR

Description	Pump spray or canister
Colour	turquoise
Flash point	none
Packaging size	600 ml (ready for use) 5 l (concentrate) 25 l (concentrate)



VARYBOND® Spraygun

The brand new Cramolin / Varybond Spraygun transforms your regular spraycan into a highly effective spray system. Suitable for all kinds of spray cans with a standardized spray head. This unique tool enables where you aim – no more overspray, no more dirt fingertips. Outstanding hygienic standards for all kinds of NSF-applications and food areas.

Packaging size 1 piece
Units / Carton 10 pieces
Item Nr. VARSG1

Colour	black
Material	plastic
Suitable for	standard 200 ml and 500 ml spraycans



Special purpose lubricants



VARYBOND® VB 12

Silicone-spray

General purpose lubricant, especially for use with nonmetallic material pairs. Excellent gliding properties for use as a cable gliss during wiring installation. Also used as a release and separating agent in plastics manufacture, and as a non adhesive electrical insulator.

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 778161VAR

Description	Aerosol
Colour	transparent
Temperature range	up to 200° C



VARYBOND® VB 13

Dry-Lubricant – PTFE

Used in areas where oil and grease-free lubrication is required. Used in electrical engineering as a cable placing lubricant, and as a dry lubricant on electromechanical components. Excellent as a release and separating agent in plastics manufacture. Product base is 100% pure PTFE.

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 113161VAR

Description	Aerosol
Colour	white
Temperature range	up to 260° C



VARYBOND® VB 16

Multi-protection-spray

General purpose formula protects and lubricates in multiple applications from industry to workshop. Suitable for use on all metals and alloys. Displaces water, prevents corrosion and oxidation, dissolves rust and lubricates moving parts. Cleans and stops squeaks, starts wet engines, and ensures longlasting operational reliability. Particularly useful on precision instruments, tools, knuckles, articulated joints, and in across-the-board automotive applications.

Packaging size 400 ml¹⁾
Units / Carton 12 Aerosol
Item Nr. 116161VAR

Description	Aerosol
Colour	yellowish
Temperature range	-70° C to +230° C



VARYBOND® VB 71

Penetrating-oil

Removes rust and protects against future rust formation. Loosens frozen threads on nuts, bolts and shackles. Restores easy movement to knuckles, levers, and all types of articulated joints and linkages.

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 171161VAR

Description	Aerosol
Colour	transparent
Temperature range	up to 250° C

¹⁾ Additional package sizes available upon request

Special purpose lubricants



VARYBOND® VB 73

White lithium grease spray – PTFE

Multi purpose white grease for all applications requiring grease based lubrication, along with easy and dedicated lubricant placement.

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 173161VAR

Description	Aerosol
Colour	white
Temperature range	up to 150° C



VARYBOND® VB 89

Grease spray

Dependable and permanent lubrication for ball bearings and roller bearings, fast running chains, chain sprockets, as well as open gear transmissions and worm gears. Extremely suitable for restoring easy movement to all types of chains and steel cables. The product is biodegradable and salt water resistant.

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 189161VAR

Description	Aerosol
Colour	transparent
Temperature range	up to approx. 200° C



VARYBOND® VB 90

Chain & cable spray – with MoS₂

For permanent and dependable lubrication of all types of chains and steel cables. The highly viscous, high adhesion lubricating film penetrates into the tightest fits. The product is also ideal for application on ball bearings, roller bearings, open gear transmissions, worm gears and all types of knuckles and articulated joints.

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 190161VAR

Description	Aerosol
Colour	dark grey
Temperature range	-20° C to +160° C



VARYBOND® VB 87

Food quality biolube spray

This product provides true multi purpose food safe lubrication, particularly for dedicated applications in the food, beverage, and pharmaceutical industry. Other typical users are medical clinics, restaurants, and manufacturers of machines and accessories catering to these areas. Complies with FDA 21 CFR, 172.856. VB

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 187161VAR

Description	Aerosol
Colour	transparent
Temperature range	-20° C to +200° C

Special purpose lubricants



VARYBOND® VB 76

Belt dressing spray

Dedicated product with excellent suitability for conditioning all flat, V-profile, or round drive belts. Prevents premature belt failure. Improves traction and extends service life of belt materials including leather, fabric or rubber.

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 176161VAR

Description	Aerosol
Colour	amber
Temperature range	up to 200° C



VARYBOND® VB 67

Leak detector spray

Spray-on leak detector for all threaded pipe joints, taps, valves, slide gates, gas bottles and connections. Suitable for all pressurized gases. Nonaggressive on materials. Product is approved by the DVGW (German Technical & Scientific Association for Gas and Water).

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 167161VAR

Description	Aerosol
Colour	transparent, clear
Temperature range	n / a



VARYBOND® VB 69

Anti spatter spray

VB 69 is a flammable aerosol without silicone for protecting welding nozzles of automatic and semiautomatic MIG and TIG welders against clinging arc spatter from the welding electrode. Eases the removal of slag and beads from workpieces.

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 169161VAR

Description	Aerosol
Colour	off-white, opaque
Temperature range	n / a



VARYBOND® VB 92

Spray adhesive

Especially formulated for large area bonding of fabrics, sponge rubber or latex foam, leather, cardboard, automotive roof liners and leatherette, sound or thermal insulation (except styrene) and rubber, on bare or painted metal and wood substrates.

Packaging size 400 ml
Units / Carton 12 Aerosol
Item Nr. 192161VAR

Description	Aerosol
Colour	yellowish
Temperature range	up to 80° C

Anti-seize compounds and lubricants



VARYBOND® High Temperature Stainless

Filler: stainless steel particles. Particularly suitable for high temperature applications and those prohibiting the presence of nickel. Used on pipe fittings and flanges in steam and hot-water installations, automotive exhaust systems and pumps. The product is highly resistant to chemicals. Meets: MIL-A-907

Packaging size¹⁾	250 / 500 g, 400 ml Aerosol
Units / Carton	12 Brush tops (250 g), 12 Tins (500 g) 12 Aerosol (400 ml)
Item Nr.	250 g VAR HTSS 250 500 g VAR HTSS 500 400 ml VAR HTSS 400

Appearance	silver-grey paste
Filler	Stainless steel
Particle size	< 50 µm
Coefficient of friction	0.08
NLGI Consistency	Class 1
Temperature range	-180° C to +1310° C



VARYBOND® Bearing Lubricant

Excellent lubricant for fast and slow-running antifriction bearings. Because the special polyurea thickener adds structural stability, Red Bearing Lubricant has a decidedly longer service life than commercial lubricants and is especially indicated for applications requiring long-term lubrication. Meets General Motors Specifications.

Packaging size¹⁾	400 g
Units / Carton	12 Tins (400 g) 12 Cartridges (400 g)
Item Nr.	400 g VAR VSR 400 400 g VAR VSRC 1

Appearance	beige paste
Particle size	n / a
Thickener	Polyurea
NLGI Consistency	Class 1 - 2
Dropping point	250° C
Temperature range	-25° C to +170° C



VARYBOND® High Temp. Bearing Lubricant

High temperature grease which does not have a dropping point and is specially formulated for use in roller bearings in incinerators, hardening furnaces and flue gas desulfurization plants. Meets General Motors Specifications.

Packaging size¹⁾	200 / 400 g
Units / Carton	12 Brush tops (200 g) 12 Cartridges (400 g)
Item Nr.	200 g VAR HTBL 200 400 g VAR HTBL 400C

Appearance	black paste
Particle size	1 µm
Thickener	Graphite
NLGI Consistency	Class 2
Dropping point	none
Temperature range	-9° C to +538° C



VARYBOND® White Ceramic Paste

This metal and graphite-free assembly paste ensures easy removal of treated parts even after years of service. Ideally suited for threaded connections on components and fits subjected to high thermal loads. Prevents seizing, baking or galling (e.g., on stainless steel), as well as stick-slip motion at low traversing or feed speeds. The product is highly resistant against chemicals.

Packaging size¹⁾	250 / 500 g, 400 ml Aerosol
Units / Carton	12 Flat tops (250 g), 12 Brush tops (500 g) 12 Aerosol (400 ml)
Item Nr.	250 g VBK 25 500 g VBK 50 400 ml VBK 16A

Appearance	white paste
Base oil / Filler	Ceramic
Particle size	< 40 µm
NLGI Consistency	Class 2 - 3
Temperature range	-40° C to +1400° C

Anti-seize compounds and lubricants



VARYBOND® Regular Grade – Tube

Excellent general purpose lubricant. Anti-seize protection for screws, bolts, springs, cotter pins, valve / pipe connections, pumps and spindles. Ideal on chafing points on brake calipers, blocks, anchor plates, shoes and retainers.

Packaging size¹⁾	100 g
Units / Carton	24 Tubes
Item Nr.	VAR RG 100

Appearance	red / silvery paste
Filler	Copper / Aluminium
Particle size	< 50 µm
Coefficient of friction	0.057 – 0.063
NLGI Consistency	Class 1 / 2
Temperature range	-188° C to 958° C

Meets:

Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2, MIL-A-907, Daimler AGA 001 98994 51, A 001 98994 51 12, BMW 83 23 9 407 830, VW G052560A2



VARYBOND® Regular Grade – Brush top

Excellent general purpose lubricant. Anti-seize protection for screws, bolts, springs, cotter pins, valve / pipe connections, pumps and spindles. Ideal on chafing points on brake calipers, blocks, anchor plates, shoes and retainers.

Packaging size¹⁾	250 g
Units / Carton	12 Brush tops
Item Nr.	VAR RG 250

Appearance	red / silvery paste
Filler	Copper / Aluminium
Particle size	< 50 µm
Coefficient of friction	0.057 – 0.063
NLGI Consistency	Class 1 / 2
Temperature range	-188° C to 958° C

Meets:

Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2, MIL-A-907, Daimler AGA 001 98994 51, A 001 98994 51 12, BMW 83 23 9 407 830, VW G052560A2



VARYBOND® Regular Grade – Tins

Excellent general purpose lubricant. Anti-seize protection for screws, bolts, springs, cotter pins, valve / pipe connections, pumps and spindles. Ideal on chafing points on brake calipers, blocks, anchor plates, shoes and retainers.

Packaging size¹⁾	500 g / 1 kg / 5 kg	
Units / Carton	12 Tins (500 g), 12 Tins (1 kg) 4 Tins (5 kg)	
Item Nr.	500g	VAR RG 500
	1 kg	VAR RG 1
	5 kg	VAR RG 5

Appearance	red / silvery paste
Filler	Copper / Aluminium
Particle size	< 50 µm
Coefficient of friction	0.057 – 0.063
NLGI Consistency	Class 1 / 2
Temperature range	-188° C to 958° C

Meets:

Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2, MIL-A-907, Daimler AGA 001 98994 51, A 001 98994 51 12, BMW 83 23 9 407 830, VW G052560A2



VARYBOND® Regular Grade – Spray

Excellent general purpose lubricant. Anti-seize protection for screws, bolts, springs, cotter pins, valve / pipe connections, pumps and spindles. Ideal on chafing points on brake calipers, blocks, anchor plates, shoes and retainers.

Packaging size¹⁾	400 ml Aerosol
Units / Carton	12 Sprays
Item Nr.	VAR RG 400

Appearance	red / silvery paste
Filler	Copper / Aluminium
Particle size	< 50 µm
Coefficient of friction	0.057 – 0.063
NLGI Consistency	Class 1 / 2
Temperature range	-188° C to 958° C

Meets:

Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2, MIL-A-907, Daimler AGA 001 98994 51, A 001 98994 51 12, BMW 83 23 9 407 830, VW G052560A2

¹⁾ Additional package sizes available upon request

Anti-seize compounds and lubricants



VARYBOND® Regular Grade – Tin

Excellent general purpose lubricant. Anti-seize protection for screws, bolts, springs, cotter pins, valve / pipe connections, pumps and spindles. Ideal on chafing points on brake calipers, blocks, anchor plates, shoes and retainers.

Packaging size¹⁾ 20 kg
Units / Carton 1 Tin
Item Nr. VAR RG 20

Appearance	red / silvery paste
Filler	Copper / Aluminium
Particle size	< 50 µm
Coefficient of friction	0.057 – 0.063
NLGI Consistency	Class 1 / 2
Temperature range	-188° C to 958° C

Meets:

Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2, MIL-A-907, Daimler AGA 001 98994 51, A 001 98994 51 12, BMW 83 23 9 407 830, VW G052560A2



Cleaner



Universal cleaner for electronics

The effect of CLEANER is based on very high quality, effective and specially mixed solvents. CLEANER evaporates quickly and leaves no residue behind. CLEANER can be used universally thanks to its special formulation of ingredients.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosols
Item Nr. 200 ml	1021411
Item Nr. 400 ml	1021611

Colour	transparent, clear
Scent	Alcohol
Density	0.67 g / cm ³
Evaporation	rapid
Residue	none
Compatibility with plastic	good
Surface tension	22 mN / m



Highly effective, oxide and sulphide dissolving contact cleaner

CONTACTCLEAN effectively eliminates oxide and sulphide layers from all kinds of metal surfaces. At the same time our special ingredients provide a lasting lubrication and corrosion protection. Contact resistances which result in failures are reduced. Without voltage drops. Preservation of the perfect operational reliability of all electrical contacts.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosols
Item Nr. 200 ml	1011411
Item Nr. 400 ml	1011611

Colour	reddish
Scent	characteristic
Density	0.73 g / cm ³
Reduction of the contact resistance	< 2 mΩ
Temperature resistance	up to + 80° C



Cleaning of DVDs, CDs and CD drives.

CD CLEANER is a mild cleaner for the reliable removal of fingermarks, nicotine, dirt and grease stains. Because of its character it also removes grease and oil as well as layers of dirt reliably. For optimum digital reproduction both the laser head and the CD / DVD or Blu-ray disc have to be cleaned. Thanks to its low surface tension and perfect solvent combination, CD CLEANER penetrates deeply into the dirt, dissolves it and restores the reproduction for a perfect digital sound.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item Nr.	1421411

Colour	transparent, clear
Scent	Alcohol
Density	0.79 g / cm ³
Evaporation	rapid
Residue	none
Compatibility with materials	very good
Purity	99.9 %



Mild, universal cleaner with a purity of > 99.9%

ISOPROPANOL is a mild, universally applicable cleaner for the reliable removal of dirt and grease. Because of its character it removes both grease and oil as well as ionic contamination. It does not attack most common materials and evaporates totally without leaving any residue within a very short time.

Packaging size	200 ml, 400 ml, 1 l
Units / Carton	12 Aerosols 200 ml, 400 ml, 12 Cans 1 l
Item Nr. 200 ml	4021411
Item Nr. 400 ml	4021611
Item Nr. 1 l	402841

Colour	transparent, clear
Scent	Alcohol
Density	0.78 g / cm ³
Evaporation	rapid, complete
Residue	none
Compatibility with materials	very good
Purity	> 99.9 %

Cleaner



Special cleaner for entertainment electronics

TUNER cleans effectively, reliably and without harming electrical devices and modules. Residues such as dust, greasy dirt, nicotine etc. can be removed without effecting the electrical capacitance and frequency values. Due to the low surface tension the solvents penetrate deeply into surfaces. TUNER dries rapidly and leaves no residue behind.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item Nr.	1041411

Colour	transparent, clear
Scent	characteristic fresh
Density	0.67 g / cm ³
Evaporation	rapid
Residue	none
Surface tension	19 mN / m
Compatibility with plastic	very good



Spraywash for cleaning soiled contacts and components

SPRAYWASH consists of a highly effective combination of solvents for the effective removal of coats of dirt or grease and oxidized layers. Good creep and flow properties lead to dirt being washed away easily when used properly. SPRAYWASH does not attack most common materials and evaporates quickly without leaving any residue.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosols
Item Nr. 200 ml	1051411
Item Nr. 400 ml	1051611

Colour	transparent, clear
Scent	Alcohol
Density	0.75 g / cm ³
Evaporation	medium
Residue	none
Compatibility with plastic	good



Very effective cleaner, removes grease and oil

The special mixture of solvents in DEGREASER guarantees a fast and reliable removal of grease and oil. The product works equally and effectively against wax and other heavy contamination. DEGREASER also is moisture- / water repellent.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosols
Item Nr. 200 ml	1061411
Item Nr. 400 ml	1061611

Colour	transparent, clear
Scent	solvent
Density	0.83 g / cm ³
Evaporation	medium
Residue	none
Compatibility with materials	good



Effectively removes residue solder from printed circuit boards

FLUX-OFF is a mild but effective cleaner which removes even stubborn solder flux residues without any problems. It makes no difference whether the flux is rosin based or water-soluble. FLUX-OFF is transparent and leaves no residue behind. It does not attack the most common materials. However, you should avoid using it on PVC and polystyrene. Also available with a brush for intensive cleaning.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item Nr.	1071611

Colour	transparent, clear
Scent	mild
Density	0.84 g / cm ³
Evaporation	residue-free
Compatibility with materials	very good
Surface tension	22 mN / m

Protective and lubricating agents



Protection for ensuring the function of plug contacts

TOP-PIN is the protection agent and lubricant for ensuring the function of all contacts, especially precious metal-plated plug contacts. It offers good lubricating and corrosion protection properties based on synthetic active ingredients. Damage to precious metal layers is prevented; there is no corrosion of non-precious base metals. The protective film of TOP-PIN has a lubricant effect, is very thin and resistant to heat.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item Nr.	1101411

Colour	yellowish
Scent	solvent
Density	0.67 g / cm ³
Temperature-resistance (film)	up to 300° C
Corrosion protection	4 cycles (DIN IEC 68)
Lubricity under pressure	very good



Viscous, highly effective insulating and lubricating oil

SILICONE is a high quality, viscous insulating oil with a dielectric strength of 12 kV / mm. It does not dry out, is water-repellent and therefore suitable as a moisture barrier. SILICONE is also a good universal lubricant. It is resistant within a wide temperature range of -50° C up to +200° C, does not attack the most common engineering materials and is non-toxic.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item Nr.	1121611

Colour	transparent, clear
Scent	typical mild
Density	0.97 g / cm ³
Viscosity (oil)	1000 mm ² / s (25° C)
Temperature resistance	-50° C to +200° C
Dielectric strength (oil)	12 kV / mm (20° C)
Compatibility with materials	very good



Multifunctional lubricating oil and corrosion protection

SPRAYOIL is a highly effective, low viscosity, acid free lubricant showing very good emergency running properties. The lubricating film is resistant and does not become gummy. It also has a water and moisture repellent effect and therefore gives lasting and reliable corrosion protection. SPRAYOIL is effective within a wide temperature range of -40° C to +170° C. Meets the requirements of standard ISO VG 10.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item Nr.	1111411

Colour	yellowish
Scent	typical mild
Density	0.78 g / cm ³
Viscosity (oil)	10 mm ² / s (40° C)
Stockpunkt	-57° C (DIN ISO 3016)
Compatibility with materials	good
Temperature resistance	-40° C to +170° C



Grease-free, PTFE-based lubricant and mold release agent

SPRAYFLON is a highly effective dry lubricant on PTFE basis. It offers a low friction coefficient and has anti-adhesive properties on plastic, glass, metal, wood or other materials. SPRAYFLON is resistant within a wide temperature range of -100° C up to +250° C, stable against chemicals, electrically insulating and enables clean working.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item Nr.	1131411

Colour	whitish
Scent	solvent
Density	0.72 g / cm ³
Compatibility with materials	very good
Temperature resistance	up to 250° C

Protective and lubricating agents



Effective lubricant, good corrosion protection

VASELINE consists of a high purity, white vaseline which can be applied easily in the available spray form. It is totally acid-free and therefore guarantees an effective corrosion protection. It also offers excellent lubricating properties which can be used universally. VASELINE is chemically neutral towards all materials.

Packaging size	200 ml
Units / Carton	12 Aerosols
Item Nr.	1141411

Colour	white
Scent	solvent
Density	0.73 g / cm ³
Compatibility with materials	very good
Compatibility with skin	very good (DAB 10)
Solidification point	approx. +53° C (DIN ISO 2207)



Lubricant and corrosion protection for contacts

PROTECTION contains a combination of active ingredients for lasting prevention of wear and corrosion on metal contact surfaces. The treated parts are coated with a stable, micro fine film which ensures good lubricant and corrosion protection properties. PROTECTION is suitable for all contact metals and does not attack the most common engineering materials.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item Nr.	1151611

Colour	bluish
Scent	Alcohol
Density	0.73 g / cm ³
Compatibility with materials	very good
RK value increase after treatment	max. 1 mΩ
Viscosity	67.4 mm ² / s
Pour point	-9° C



Multifunctional oil dissolves rust, cleans, repels water, protects and lubricates

Multifunctional combination of active ingredients for solving problems in industry and in the workshop. MULTI repels water, prevents corrosion, dissolves rust, cleans, lubricates moving parts, eliminates squeaking, starts wet engines and guarantees continuous functioning. MULTI does not attack rubber, plastics, textiles and lacquers and contains no harmful substances.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item Nr.	1161611

Colour	yellowish, slightly turbid
Scent	vanilla
Density	0.81 g / cm ³
Viscosity (oil)	30 – 35 mm ² / s (40° C)
Corrosion protection	up to 500 h (salt spray test)
Lubricity	up to 790 kg (Falex)



Lubricant for pulling in cables and wires

KABELGLIDE is a high-grade lubricant for pulling cables and wires easily through electric installation tubes. The 70 cm long, flexible extension tube delivered with KABELGLIDE is simply fixed to the spray nozzle and guarantees easy spraying of the inside walls of installation tubes. KABELGLIDE does not dry out, is water-repellent and therefore suitable as a moisture buffer. It is resistant within a wide temperature range of -50°C up to +200°C, does not attack plastics and construction materials and is non-toxic.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item Nr.	1511611

Colour	transparent, clear
Density	0.97 g / cm ³
Viscosity (oil)	1000 mm ² / s (40° C)
Temperature range	-50° C to +200° C
Dielectric strength	12 kV / mm
Compatibility with materials	very good

Protective and lubricating agents



Pulling in cables made easy

KABEL-GEL is a silicone-free lubricant which makes pulling cables and wires into electrical installation tubes and ducts easier and faster. KABEL-GEL does not stick, does not dry out and helps to avoid damage to cable and wire sheaths. KABEL-GEL does not attack plastics and the most common engineering materials and is biodegradable.

Packaging size	1050 ml
Units / Carton	12 Bottles
Item Nr.	154841

Colour	transparent, clear
Density	0.99 g / cm ³
Temperature resistance	up to 82° C
Viscosity	gel-like



Highly effective, active corrosion protection oil

ANTIKORR combats moisture, repels water and protects against corrosion even under the harshest environmental conditions. Due to the low surface tension and excellent creep properties, ANTIKORR also reaches places of difficult access and penetrates into the finest surface pores and gaps. The remaining film is practically invisible and does not need to be removed in most cases for further processing of the parts (except lacquering).

Packaging size	400 ml, 5 l, 20 l
Units / Carton	12 Aerosols 400 ml, 4 Canisters 5 l, 1 Canister 20 l
Item Nr.	400 ml 1631611 (400 ml), 163854 (5 l), 163860 (20 l)

Colour	blue-green
Density	0.80 g / cm ³
Viscosity	3 mm ² / s (20° C)
Temperature resistance	up to 150° C
Lubricity	up to 790 kg

Complies with mil. spec.:
C-81309E, C-372C, AA-50493, 0-W-1284B



Silicone-free solution for separating rubber and plastic parts

MOLD RELEASE AGENT 99 is a silicone-free mold release agent based on polyethylene glycol for forming plastics and rubber. It covers the entire mold and gives the rubber and plastic parts an attractive surface appearance. MOLD RELEASE AGENT 99 also serves for moisture and as a release agent for the often difficult forming of foam rubber parts. It does not attack rubber and plastics and is not harmful or irritant.

Packaging size	10 l
Units / Carton	1 Canister 10 l
Item Nr.	801880

Colour	transparent, clear
Scent	characteristic
Density	0.89 g / cm ³
Viscosity	low viscous
Flash point	approx. 13° C
Properties	silicone-free



Spray Polisher

Multi-purpose spray for cleaning, polishing and sealing smooth surfaces. Spray Polisher leaves behind a long-lasting protective layer, preventing oxidation and corrosion. Has an anti-static, dust- and dirt-repellent effect.

Packaging size	400 ml
Units / Carton	12 Aerosols
Item Nr.	1351611

Colour	fawn
Basis	Polishing gel
Density	0.68 [g / cm ³] at 20° C
Flammable	Extremely flammable
Evaporation	slow
Compatibility with materials	very good

NEW

Simple the roughest Simply the fastest

The ultrastrong hand cleaner towel
for maintenance, repair and overhaul



No Water!
No Soap!
No Problem!



REMOVES

Heavy grease • Lubricants • Adhesives • Oils • Tar • Bitumen • Inks • Grime
Paints • Wax • Coal dust • Graphite • Grass stains • and many more ...

SCRUBS®

Lacquers



Clear lacquer for insulating and sealing

PLASTIK contains a high quality acrylic resin lacquer. It coats surfaces with a protective film which is resistant to acids, alkalis, alcohols, moisture and adverse environmental influences. The lacquer adheres to metal, plastic, wood, cardboard, glass, etc. It does not drip and permits soldering through its own layer. PLASTIK contains a UV indicator for quality control.

Packaging size	400 ml, 1 l, 5 l, 20 l
Units / Carton	12 Aerosols 400 ml, 12 Cans 1 l, 4 Canisters 5 l, 1 Canister 20 l, 1 Barrel 200 l
Item Nr.	1201611 (400 ml), 120841 (1 l)
Item Nr.	120854 (5 l), 120860 (20 l), 1208701 (200 l)

Colour	transparent
Scent	solvent
Density	0.88 g / cm ³
Surface resistance	5 x 10 ¹⁴ Ω
Contact resistance	10 ¹⁴ Ω / cm
Dielectric strength	21 kV / mm
Leakage current strength (CTI)	> 600 Ω
Temperature resistance	-70° C to +120° C
	Class E acc. to VDE 0360

Meets MIL-I-460580 „Type Acrylic Resin“



Special resistant protective and insulating lacquer

URETHANE CLEAR is a single component urethane lacquer for electronics. It offers high surface and contact resistances, good dielectric strength, low dielectric constant and loss factors. Resistant to moisture, dilute acids and alkalis, solvents and fungus attack. The film is elastic, wear and adhesion resistant, heavy duty and permits soldering through its own layer.

Packaging size	400 ml, 1 l, 5 l
Units / Carton	12 Aerosol 400 ml, 12 Cans 1 l, 4 Canisters 5 l
Item Nr.	400 ml 1211611
Item Nr.	1 l 121841
Item Nr.	5 l ¹⁾ 121854

Colour	slightly yellowish
Density	0.80 g / cm ³
Surface resistance	2.5 x 10 ¹² Ω
Contact resistance	5.1 x 10 ¹⁴ Ω
Dielectric strength	82.9 kV / mm
Temperature range	-40° C to +130° C
	Class B nach VDE 0360



Very temperature resistant silicone insulating lacquer

SOTEMP is a heat, moisture and water resistant insulating lacquer. It retains its effect even at temperatures up to 500°C. It is also flame retardant, highly adhesive and elastic. ISOTEMP is suitable for moisture sealing and for impregnation. The lacquer works well at room temperature and takes rapid effect.

Packaging size	200 ml, 1 l
Units / Carton	12 Aerosol 200 ml, 12 Cans 1 l
Item Nr.	200 ml 1221411
Item Nr.	1 l ¹⁾ 122841

Colour	yellowish, slightly turbid
Density (Film)	0.80 g / cm ³
Dielectric strength	110 kV / mm
Temperature resistance	-45° C to +500° C
Contact resistance	7.5 x 10 ¹⁶ Ω / cm



Effective shielding of electromagnetic influences

EMILAC is a highly conductive coating based on silver plated copper particles for shielding against electro magnetic waves. Protects against electromagnetic interferences (EMI) and electrostatic discharges (ESE). EMILAC is easy to apply and has a high stability even under adverse environmental conditions such as heat and moisture. It bonds well, does not attack materials and dries quickly.

Packaging size	200 ml
Units / Carton	12 Aerosol
Item Nr.	1241411

Colour	copper
Density	0.60 g / cm ³
Surface resistance	< 0.25 Ω / mm ²
	at 50 µm coat thickness
Damping	60 – 65 dB at 50 µm
	according to ASTM ES 7-83
Operating temperatur	-40° C to +95° C
Drying time	dust dry after 10 minutes

¹⁾ Other container sizes available on request

Lacquers



Photocopy lacquer for making printed circuits

POSITIV RESIST is a light-sensitive coating for transfer ring lines, shapes and contours. The accurate copying of image elements on different materials is possible by a relatively simple technique. POSITIV RESIST ensures easy work, quick drying, good contrast and high sharpness.

Packaging size	200 ml, 1 l
Units / Carton	12 Aerosol 200 ml, 12 Cans 1 l sprayable / flingable
Item Nr. 200 ml	1261411
Item Nr. 1 l	1268415P
Item Nr. 1 l	1268415C

Colour	dark violet
Density	0.85 g / cm ³
Dry time	30 – 60 minutes (20° C)
Light sensitivity	between 310 and 440 nm max. between 330 and 420 nm



Ideal cold galvanisation for assembly and industry

ZINK is a quick drying, good covering, highly adhesive, heat and weather resistant long term protection against rust and corrosion for exposed ferrous metals. The coating forms a resistant metal film and offers double protection by the refined artificial resin and by electromechanical reaction or cathodic effect of the zinc pigments. ZINK forms a conductive intermediate layer during welding and can be used as a primer for lacquering.

Packaging size	400 ml
Units / Carton	12 Aerosol
Item Nr.	1271611

Colour	dark grey
Density	0.95 g / cm ³
Dry time	30 minutes (grippable) 24 hours (completely dry)
Bend test (DIN 53152)	No change in the surface
Cross hatch (DIN 53151)	Gt 0 – 1
Salt mist test (DIN 53167, DIN 50021)	ca. 600 – 800 hours
Temperature resistance	up to +500° C



Graphite-based lubricant lacquer

GRAPHITE is an easy to use lubricating lacquer based on colloidal graphite for producing good adhesive, conductive layers. GRAPHITE adheres very well to smooth surfaces such as glass and plastic. Layers of GRAPHITE are temperature-resistant up to 300°C. The resistance is 1.000 to 2.000 Ω depending on the layer thickness.

Packaging size	200 ml
Units / Carton	12 Aerosol
Item Nr.	1281411

Colour	black-grey
Density	0.88 g / cm ³
Dry time	24 hours (completely dry)
Surface resistance	1.000 to 2.000 Ω
Operating temperature	-40° C to +400° C



Spraygun

The brand new Cramolin / Varybond Spraygun transforms your regular spraycan into a highly effective spray system. Suitable for all kinds of spray cans with a standardized spray head. This unique tool enables where you aim – no more overspray, no more dirt fingertips. Outstanding hygienic standards for all kinds of NSF-applications and food areas.

Packaging size	1 piece
Units / Carton	10 pieces
Item Nr.	VARSG1

Colour	black
Material	Plastic
Suitable for	nearly all 200 ml to 500 ml aerosol with standard spray head



Special sprays

Freezer Top



For thermal fault diagnosis, cooling up to -50°C, non-flammable

FREEZER-TOP guarantees quick and reliable cooling down to -50° C, does not burn, evaporates immediately and leaves no residue. FREEZER-TOP is compatible with all materials, the proven and reliable source of freezing for all areas of application.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosol
Item Nr. 200 ml	1301411
Item Nr. 400 ml	1301611

Scent	scentless
Density	1.20 g / cm ³
Evaporation	complete
Achievable temperatur	at least -50° C
Flashpoint	non-flammable

Freezer BR



For thermal fault diagnosis, cooling up to -50°C

FREEZER-BR guarantees quick, reliable cooling down to -50° C, evaporates immediately and without leaving any residue. FREEZER-BR is compatible with all materials, the low cost source of freezing for standard applications.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosol
Item Nr. 200 ml	1461411
Item Nr. 400 ml	1461611

Scent	scentless
Density	0.54 g / cm ³
Evaporation	complete
Achievable temperatur	at least -50° C
Flashpoint	< 0° C

Booster / Booster all-way



Extra-strong aerosol for very stubborn dirt – non-flammable

BOOSTER and BOOSTER ALL-WAY are extra strong, non-flammable pressurised gases for professional use wherever stubborn dusty contamination has to be removed reliably, thoroughly and safely. The unique technology ensures that the resulting pressure is four times that of normal compressed air sprays. With the new valve technology the BOOSTER ALL-WAY can be used in any position, even upside down.

Packaging size	500 g
Units / Carton	12 Aerosol
Item Nr.	1481711

Scent	scentless
Density	1.20 g / cm ³
Evaporation	complete
Pressure	5.3 bar (+20° C)
Flashpoint	non-flammable

Duster Top



For cleaning at places of difficult access – non-flammable

DUSTER-TOP releases high pressure, non-flammable, leaves no residues and does not attack the most common materials. The safe, proven way to remove dust.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosol
Item Nr. 200 ml	1311411
Item Nr. 400 ml	1311611

Scent	scentless
Density	1.20 g / cm ³
Pressure	4.8 bar (+20° C)
Flashpoint	non-flammable
Evaporation	complete

Special sprays



For cleaning at places of difficult access

DUSTER-BR releases high gas pressure, leaves no residues and does not attack the most common materials. The safe, proven way to remove dust.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosol
Item Nr. 200 ml	1471411
Item Nr. 400 ml	1471611

Scent	scentsless
Density	0.55 g / cm ³
Pressure	4.8 bar (+20° C)
Flashpoint	< 0° C
Evaporation	complete



High quality lubricating, protection and cleaning oil

CRAMOLIN GUNOIL is a high quality lubricating, protection and cleaning oil for all types of firearms. Its special formula makes GUNOIL highly effective.

Packaging size	200 ml
Units / Carton	12 Aerosol
Item Nr.	1171411

Colour	blue-green
Density	0.89 g / cm ³
Viscosity	3 mm ² / s
Lubricity	up to 790 kg
Long term resistance	up to 9 months
Suitable for	all kinds of firearms
Heat resistance	to 150 ° C



For removing layers of dirt from glass, metal and plastic surfaces

GLASSCLEAN removes dirt, dust, nicotine, oil, grease and insect remains and fingerprints easily from all types of glass and plastic surfaces. The solid foam does not run off even on vertical surfaces and has an antistatic effect.

Packaging size	400 ml
Units / Carton	12 Aerosol
Item Nr.	1401611

Colour	white foam
Scent	fruity
Density	0.90 g / cm ³
Foam stability	very good (several minutes)
Compatibility with materials	very good (with glass and metal) good (with plastic surfaces)



SCREEN is a foam cleaner for plasma and LCD screens with antistatic effect

SCREEN is especially suitable for gentle but effective cleaning of modern flat screens. The stable cleaning foam does not run off even on vertical surfaces and removes even stubborn, greasy layers of dirt without smearing and without harming screen surfaces. SCREEN is alcohol free and therefore indispensable in the office and at home.

Packaging size	200 ml, 400 ml
Units / Carton	12 Aerosol
Item Nr. 200 ml	1321411
Item Nr. 400 ml	1321611

Colour	white foam
Foam stability	very good
Compatibility with materials	Glas, metal, hardened lacquers unlimited good, plastics such as acrylic glass, polycarbonate, ABS, PVC, polyamide

Special sprays



Avoidance of electro static charges

ANTISTATIC effectively prevents electrostatic charges on plastics and textiles. It forms an invisible, ultra-fine film after spraying, which does not affect or harm the surface when used properly. ANTISTATIC provides highly effective, surface-active ingredients which have been developed and tested according to physical-chemical standards. ANTISTATIC considerably reduces the surface resistance.

Packaging size	200 ml
Units / Carton	12 Aerosol
Item Nr.	1331411

Colour	transparent, clear
Scent	fresh
Density	0.59 g / cm ³
Compatibility with materials	very good
Temperature resistance	-50° C to +220° C
Thermal stability	extremely high



Removes adhesive labels easily and reliably

LABEL-OFF makes it easy to remove adhesive paper labels. The active ingredient penetrates the paper and neutralises the adhesive force of the glue. The residue adhesive can easily be wiped off with a cloth or piece of paper. Do not use on polystyrene or polyamide. It is recommended to test the effect on a small, invisible area if in doubt.

Units / Carton	12 Aerosol 200 ml, 400 ml, 12 Cans 1 l, 4 Canisters 5 l
Item Nr.	1341411 (200 ml), 1341611 (400 ml)
Item Nr.	134841 (1 l), 134854 (5 l)¹⁾

Colour	transparent, clear
Scent	orange
Density	0.69 g / cm ³
Evaporation speed	medium
Compatibility with materials	good (except for polystyrene, polyamide)



Easily removes ink, paper and toner residue

PRINTER contains an optimal mixture of solvents for removing ink and toner residue from inkjet and laser printers. Paper dust can be cleaned equally effectively from printer feed rollers. Annoying problems with the paper feed are eliminated. The antistatic effect delays re-soiling. PRINTER does not attack the most common materials and evaporates without leaving any residue.

Packaging size	200 ml
Units / Carton	12 Aerosol
Item Nr.	1361411

Colour	transparent, clear
Scent	perfume
Density	0.69 g / cm ³
Evaporation speed	rapid
Cleaning	very good (with grease, ink, toner and paper residue)
Compatibility with materials	good



SCREEN TFT is a foam cleaner for tfts and touchscreen devices with antistatic effect

SCREEN TFT is especially suitable for gentle but effective cleaning of modern flat screens. The stable cleaning foam does not run off even on vertical surfaces and removes even stubborn, greasy layers of dirt without smearing and without harming screen surfaces. SCREEN TFT is alcohol free and therefore indispensable in the office and at home.

Packaging size	200 ml
Units / Carton	12 Aerosol
Item Nr.	1431411

Colour	white foam
Foam stability	very good
Compatibility with materials	Glas, metal, hardened lacquers unlimited good, plastics such as acrylic glass, polycarbonate, ABS, PVC, polyamide

¹⁾ Other container sizes available on request

Special sprays



SDT-Spray

SDT-SPRAY is ideal for professional testings of optical and photoelectric Smoke Detectors without using any additional test equipment. One Spraycan lasts for up to 200 applications.

SDT-SPRAY is an Aerosol / Atomised Spray and not „Smoke in a can“.

Packaging size 200 ml
Units / Carton 12 Aerosols
Item.-Nr. 1391411

Colour	transparent, clear
Scent	fresh
Evaporation	fast and complete
Density	0.59 g / cm ³
Compatibility with materials	very good
Recomm. no. of testings	2 times per year

Play it safe

Order now our all new Smoke-Detector-Test-Spray.
Confidence is good, control is better!

The Installation of Smoke Detectors does not guarantee a durable failure-free operation. Therefore it is necessary to inspect your Smoke Detectors minimum once a year; a proper function as well as if they are installed far enough to furnishings and walls is essential.

Cramolin® SDT-Spray evaporates quickly without leaving any residues and has a very good material compatibility. One Spraycan lasts for up to 200 applications.



Available
now!

Only suitable for checking the operation of optical and photoelectric Smoke Detectors. SDT-Spray is an Aerosol / Atomized Spray and not "Smoke in a can".



CRAMOLIN 
LÖSUNG PER KNOPFD RUCK

Cleaners



SCRUBS® IN-A-BUCKET®

72 towels

Mobile, highly efficient hand cleansing and parts cleaning system. Pre-moistened towels. Quick, gentle removal of intensive soiling, such as greases, oils, adhesives, tar, wax, soot, paint, ink, sealants, polyurethane (PU), etc. Once hands have been cleansed, the towels retain effective cleaning power for tools and equipment. Napped side removes stubborn soils. Smooth side for gentle hand cleansing. The product is antibacterial, doesn't strip the skin's natural oils, and is biodegradable.

Packaging size 72 Towels / Pail
Units / Carton 6 Pails
Item Nr. DY42272

Description	moistened towels
Colour	blue
Towel size	27 x 31 cm
Scent	orange

Licensed under U.S. Patent No's:
 5.683.971; 4.853.281; 4.833.003; 4.775.582



SCRUBS® IN-A-BUCKET®

30 towels

Mobile, highly efficient hand cleansing and parts cleaning system. Pre-moistened towels. Quick, gentle removal of intensive soiling, such as greases, oils, adhesives, tar, wax, soot, paint, ink, sealants, polyurethane (PU), etc. Once hands have been cleansed, the towels retain effective cleaning power for tools and equipment. Napped side removes stubborn soils. Smooth side for gentle hand cleansing. The product is antibacterial, doesn't strip the skin's natural oils, and is biodegradable.

Packaging size 30 Towels / Container
Units / Carton 6 Containers
Item Nr. DY42230

Description	moistened towels
Colour	blue
Towel size	27 x 31 cm
Scent	orange

Licensed under U.S. Patent No's:
 5.683.971; 4.853.281; 4.833.003; 4.775.582



SCRUBS® IN-A-BUCKET®

15 towels

Mobile, highly efficient hand cleansing and parts cleaning system. Pre-moistened towels. Quick, gentle removal of intensive soiling, such as greases, oils, adhesives, tar, wax, soot, paint, ink, sealants, polyurethane (PU), etc. Once hands have been cleansed, the towels retain effective cleaning power for tools and equipment. Napped side removes stubborn soils. Smooth side for gentle hand cleansing. The product is antibacterial, doesn't strip the skin's natural oils, and is biodegradable.

Packaging size 15 Towels / Container
Units / Carton 12 Containers
Item Nr. DY42215

Description	moistened towels
Colour	blue
Towel size	19,5 x 20 cm
Scent	orange

Licensed under U.S. Patent No's:
 5.683.971; 4.853.281; 4.833.003; 4.775.582



SCRUBS® IN-A-BUCKET®

1 towel

Mobile, highly efficient hand cleansing and parts cleaning system. Pre-moistened towels. Quick, gentle removal of intensive soiling, such as greases, oils, adhesives, tar, wax, soot, paint, ink, sealants, polyurethane (PU), etc. Once hands have been cleansed, the towels retain effective cleaning power for tools and equipment. Napped side removes stubborn soils. Smooth side for gentle hand cleansing. The product is antibacterial, doesn't strip the skin's natural oils, and is biodegradable.

Packaging size 1 Towel / Single pack
Units / Carton 100 Single packs
Item Nr. DY42201

Description	moistened towels
Colour	blue
Towel size	21 x 30 cm
Scent	orange

Licensed under U.S. Patent No's:
 5.683.971; 4.853.281; 4.833.003; 4.775.582

Cleaners

Stainless Steel



Stainless steel cleaner towel

Stainless steel cleaner towels clean, polish, brighten and protect all in one step. This powerful formula prevents water marks and corrosion and preserves the high luster of stainless steel. They are ideal for bathrooms, drinking fountains, elevators, kitchens and more.

Packaging size	30 Towels / Container
	1 Towel / Single pack
Units / Carton	6 Containers
	100 Single packs
Item Nr.	DY91930 (Container)
Item Nr.	DY91901 (Sachets)

Description	moistened towels
Colour	orange
Towel size	21 x 30 cm (single pack) 27 x 31 cm (30pc container)

Anti Graffiti



Graffiti and paint remover towel

Graffiti and paint remover towels combine a high quality graffiti remover formula with an absorbent, abrasive, non-scratching towel. This product will loosen and remove graffiti and spray paint, allowing the towel to absorb and hold residue without redepositing paint on surface.

Packaging size	30 Towels / Container
	1 Towel / Single pack
Units / Carton	6 Containers
	100 Single packs
Item Nr.	DY90130 (Container)
Item Nr.	DY90101 (Sachets)

Description	moistened towels
Colour	grey
Towel size	21 x 30 cm (single pack) 27 x 31 cm (30pc container)

Cleaners

Fast Orange®



PERMATEX® FAST ORANGE®

Hand cleaner

Permatex® Fast Orange® is a natural, biodegradable hand cleaner. Fast Orange® has an enjoyable fresh scent of oranges and is free of any artificial fragrances. Fast Orange® contains crushed particles of pumice for a more efficient hand cleaning. Moreover contains Fast Orange® aloe vera, jojoba oil and lanolin (wool fat) for a good care of irritated or dry skin.

Units / Carton	12 Bottles (443 ml)
	4 Canisters with dispenser (3,8 l)
Item Nr. 443 ml	DY89122
Item Nr. 3,8 l	DY89011

Appearance	white, viscous lotion
Scent	orange
pH-value	7.0 (pH-balanced)
Ingredients for skin care	aloe vera, jojoba, oil, lanolin (wool fat)

Complete line marking system in a box

The world's only disposable line marking system, ideal for marking small areas such as car parking spaces (for up to 15 cars), tennis courts and restricted access areas. Quick and simple to use, touch dry in 10 minutes and no cleaning after use.

The EASYLINE® Universal Applicator excels in external environments where markings are required on surfaces that are particularly uneven, rough or potholed.



EASYLINE® EDGE – colours & applicator



Aerosol colours EASYLINE® EDGE

Packaging size	750 ml	
Units / Carton	6 Aerosol	
Item Nr.	White (RAL 9016)	RS47000
	Yellow (RAL 1023)	RS47001
	Red (RAL 3020)	RS47002
	Blue (RAL 5017)	RS47003
	Green (RAL 6024)	RS47004
	Orange (RAL 2009)	RS47005
	Black (RAL 9017)	RS47006
	Grey (RAL 7045)	RS47007
	Flourescent Yellow	RS47009



Line marking tools

Airblow applicator		
Packaging size	1 piece – 55 / 75 / 100 mm	
Item Nr.	RS47010	
Applicator spare	Spare masking set	
Packaging size	2 pieces	
Item Nr.	RS47011	
Applicator gun		
Packaging size	1 piece	
Item Nr.	RS46013	



Accessories kit

EASYLINE® stencils		
Packaging size	1 piece	
Item Nr.	RS40141	(150 mm)
	RS40144	(300 mm)

EASYLINE® large disabled stencil		
Packaging size	1 piece	
Item Nr.	RS40142	

All inclusive box

Supplied in a heavy duty case.



EASYLINE® EDGE

Available aerosol colours

Caution / Hazard



General



Danger / Prohibition



Information / Direction



Mandatory / Protection



Chemical storage



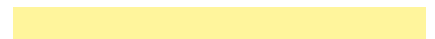
Delete existing lines



Delete existing lines



Flourescent Yellow



Provide an immediate solution to slip problems

Comprising of a thick, robust and fade resistant PVC film on one side and treated with a tenacious pressure sensitive adhesive on the underside.



SAFE STEP® tapes



EASYLINE® line marking tape

Packaging size	50 mm x 33 m	75 mm x 33 m
Units / Carton	24 Rolls (50 mm), 16 Rolls (75 mm)	
Item Nr.		
White	50 mm RS56000	75 mm RS56010
Yellow	50 mm RS56001	75 mm RS56011
Red	50 mm RS56002	75 mm RS56012
Blue	50 mm RS56003	75 mm RS56013
Green	50 mm RS56004	75 mm RS56014
Black / Yellow	50 mm RS56005	75 mm RS56015
Red / Weiss	50 mm RS56006	75 mm RS56016



EASYLINE® tape applicator

Applicator for tapes from 50 to 75 mm in width

Packaging size	1 Piece
Item Nr.	RS56099

Starter Sets

Including applicator „EASYLINE® tape applicator“ as well as 3 tapes in 50 mm width

Packaging size	1 Piece
Item Nr. Set 1	RS56100 (50 mm white)
Item Nr. Set 2	RS56101 (50 mm yellow)

Marking spray TOP



Packaging size	500 ml
Units / Carton	12 Aerosols
Item Nr.	
Red	RS42000
Orange	RS42001
Yellow	RS42002
Cherry	RS42003
White	RS42004
Blue	RS42005
Green	RS42006
Black	RS42007

SAFE STEP®

Available Colours

Red



Yellow



White



Blue



Green



Black / Yellow



Red / White



Concrete repair compound

Rapid Setting and ready for heavy use in 4 hours

Highly resistant to impact and scuffing, abrasion, water, steam, oils and most common chemicals and solvents.

One part product - simply add water prior to use

Coverage: 12.5 m² per 25 kg pack.

For internal and external use

Ideal for medium to large repairs.



Asphalt repair compound

Ready for heavy traffic immediately after laying

Can be laid in all weather conditions

Resistant to oil

Coverage: 0.75 m² per pack.



Heavy duty epoxy repair compound

Full mechanical performance in less than 24 hrs

Does not shrink or dust

Chemical resistant compound

For internal and external applications

Coverage: 2.250 cc per 5 kg pack.



SAFE STEP® repair & preparation



SAFE STEP®

Concrete Repair Compound

Rapid setting and ready for heavy use in 4 hours. Highly resistant to impact and scuffing, abrasion, water, steam, oils and most common chemicals and solvents. One part product – simply add water prior to use. Coverage: 12.5 m² per 25 kg pack. For internal and external use. Ideal for medium to large repairs.

Packaging size 1 Pail / 25 kg
Item Nr. RS42025



SAFE STEP®

Asphalt Repair Compound

Ready for heavy traffic immediately after laying. Can be laid in all weather conditions. Resistant to oil. Coverage: 0.75 m² per pack.

Packaging size 1 Pail / 25 l
Item Nr. RS42031



SAFE STEP®

Heavy Duty Epoxy Repair Compound

Full mechanical performance in less than 24 hours. Does not shrink or dust. Chemical resistant compound. For internal and external applications. Coverage: 2,250 cc per 5 kg pack.

Packaging size 1 Pail / 5 kg
Item Nr. RS42036

SAFE STEP® floor coatings

Much of the technology employed in the manufacture of SAFE STEP® anti-slip products was originally developed for use on the flight decks of Navy aircraft carriers. The coating has been tested to withstand a minimum of 15,000 high impact landings from an aircraft, weighing 32 tonnes and landing at 175 mph.

Today, SAFE STEP® high performance anti-slip coatings provide a durable anti-slip surface for use in many applications without the need for regular re-application, and their unique profile gives our coatings a guaranteed level of slip resistance.

- Unique peak and trough profile
- Aluminium oxide for durability
- Thixotropic formulation guarantees slip resistant profile
- Rough surface pierces contaminant for increased grip



Safe Step® 50

For use in large areas where a low profile pedestrian grade anti-slip coating is required.



Safe Step® 100

A high performance, single pack epoxy ester anti-slip coating suitable for heavy pedestrian



Safe Step® 200

A high performance, two part epoxy anti-slip coating suitable for heavy vehicular traffic.



Safe Step® 500

Extra heavy duty, two-part epoxy anti-slip coating providing superior resistance to chemicals and wear.



Safe Step® Anti-slip spray (clear)

Easy to use and quick to apply. Suitable for interior and exterior use.



SAFE STEP® floor coatings



SAFE STEP®

Anti-slip floor coating

Units	1 Pail / 5 l		
Item Nr.	SAFE STEP® 50	Grey	RS43070
		Tile red	RS43071
SAFE STEP® 100		Grey	RS43256
		Tile red	RS43257
		Yellow	RS43312
SAFE STEP® 200		Grey	RS43320
		Tile red	RS43321
		Yellow	RS43322
SAFE STEP® 500		SF Grey	RS43323



SAFE STEP®

Anti-slip spray (clear)

Durability approximately 6 months, dependent upon application. Coverage: 1.5 – 2 m² per 400 ml aerosol. Application temperature between 5 – 30° C

Packaging size	400 ml
Units / Carton	6 Aerosols
Item Nr.	RS45000

Drying Times:

Touch dry	30 – 40 minutes
Overcoating time	30 – 60 minutes
Light pedestrian traffic	12 hours

Primers and Accessory



Item Nr.	Non Metal Primer	5 l Pail	RS43285
		0,75 l Can	RS43284
	Metal Primer	5 l Pail	RS42087
		0,75 l Can	RS43265
	Hard rollers	6 Pieces	RS40666
	Roller handles	1 Piece	RS40668

Provide an immediate solution to slip problems

When you need an immediate solution to a slip problem, need to keep the cost down and cannot afford to close off an area for more than a few minutes, SAFE STEP® self-adhesive tapes and treads provide an economical, efficient answer. Whether the problem exists indoors or outdoors, on steps and walkways, around machinery or even in shower areas, SAFE STEP® tapes will provide a safe and durable anti-slip surface suitable for pedestrian traffic.



Traffic management

If you are responsible for health and safety within your organisation, you will know how important it is to manage the speed and flow of traffic on your site. ROCOL® offer a comprehensive range of products to help organisations with their traffic management and site maintenance responsibilities.

The PACERS® system is recognised internationally as one of the most effective methods of speed reduction and has been successfully utilised for over 25 years. Manufactured from hard tough, high impact virgin rubber, our PACERS® speed bumps are ideal for areas of intense, heavy traffic such as manufacturing sites, large retail parks and hospitals.



SAFE STEP® floor coatings

SAFE STEP® tapes



Tape	50 mm x 18,25 m		Tin with brush	
Packaging size	1 Roll		Packaging size	500 ml
Item Nr.	Black / Yellow	RS43543	Item Nr.	RS43541
	Luminescent	RS43546		
	Neutral	RS43539	Edge Sealer	
	High Vis Neon	RS43540	Packaging size	100 ml
	Aqua	RS43538	Item Nr.	RS43542
Tape	Standard Black			
Packaging size	1 Roll			
Item Nr.	25 mm x 18,25 m	RS43530		
	50 mm x 18,25 m	RS43531		
	100 mm x 18,25 m	RS43532		
	150 mm x 18,25 m	RS43533		

PACERS® and MINI PACERS®

PACERS® speed bumps



Sizes	PACERS® Standard	410 x 250 x 68 mm
	MINI PACERS®	340 x 250 x 50 mm
Packaging size	1 pair	
Item Nr.	PACERS® Standard	RS40930
	MINI PACERS®	RS40933
PACERS® END CAPS (Colour: yellow)	Standard	RS40931
	Mini	RS40935
Expandaplugs	Pack of 4	RS40934

PACERS®

Road width:

0,5 m	1 pair
1,0 m	2 pair
1,5 m	3 pair
2,0 m	4 pair
2,5 m	5 pair
3,0 m	6 pair
3,5 m	7 pair
4,0 m	8 pair

PACERS® end caps will cover 23 cm of the road width (1 pair = 46 cm)

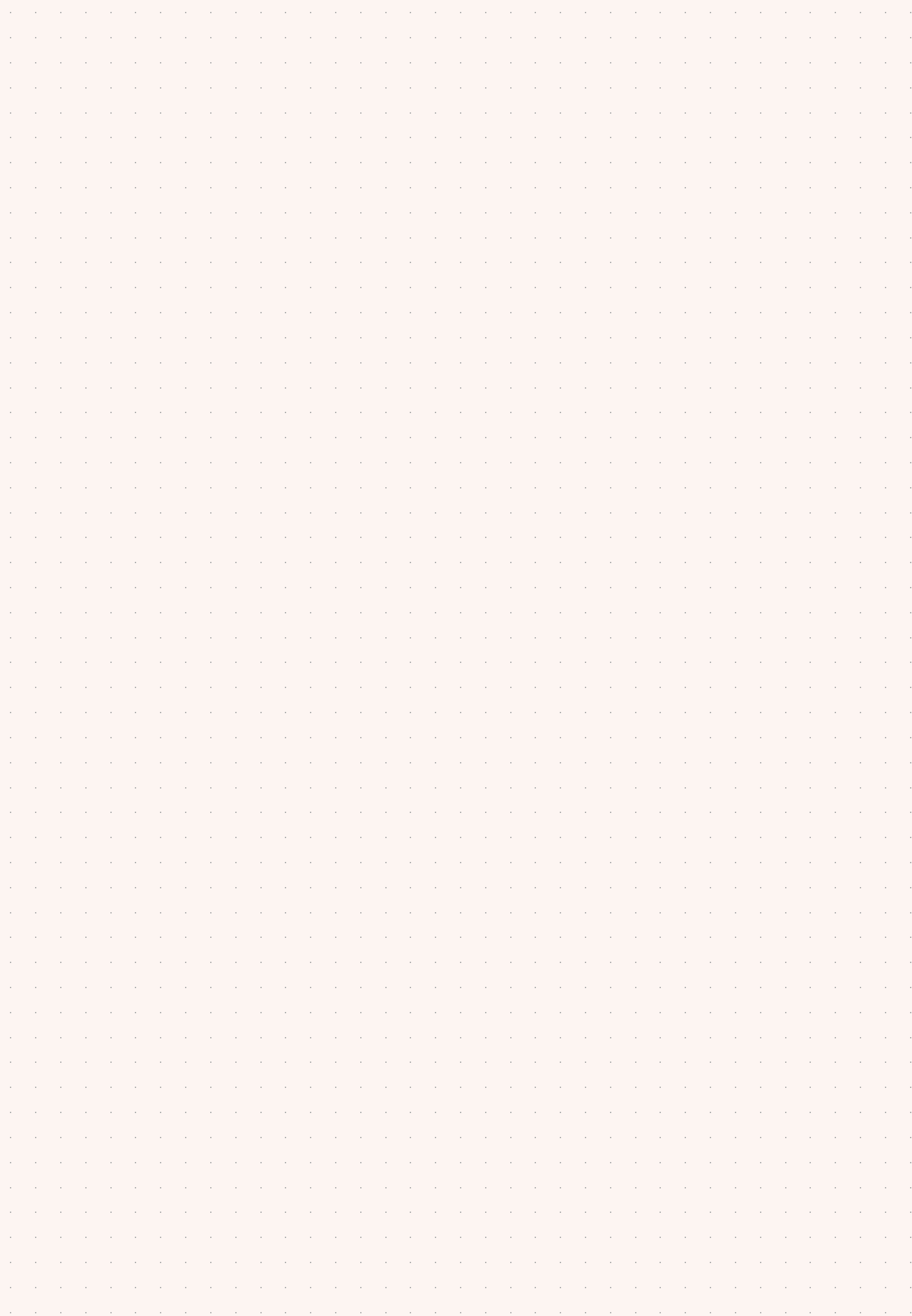
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24 hours a day.**



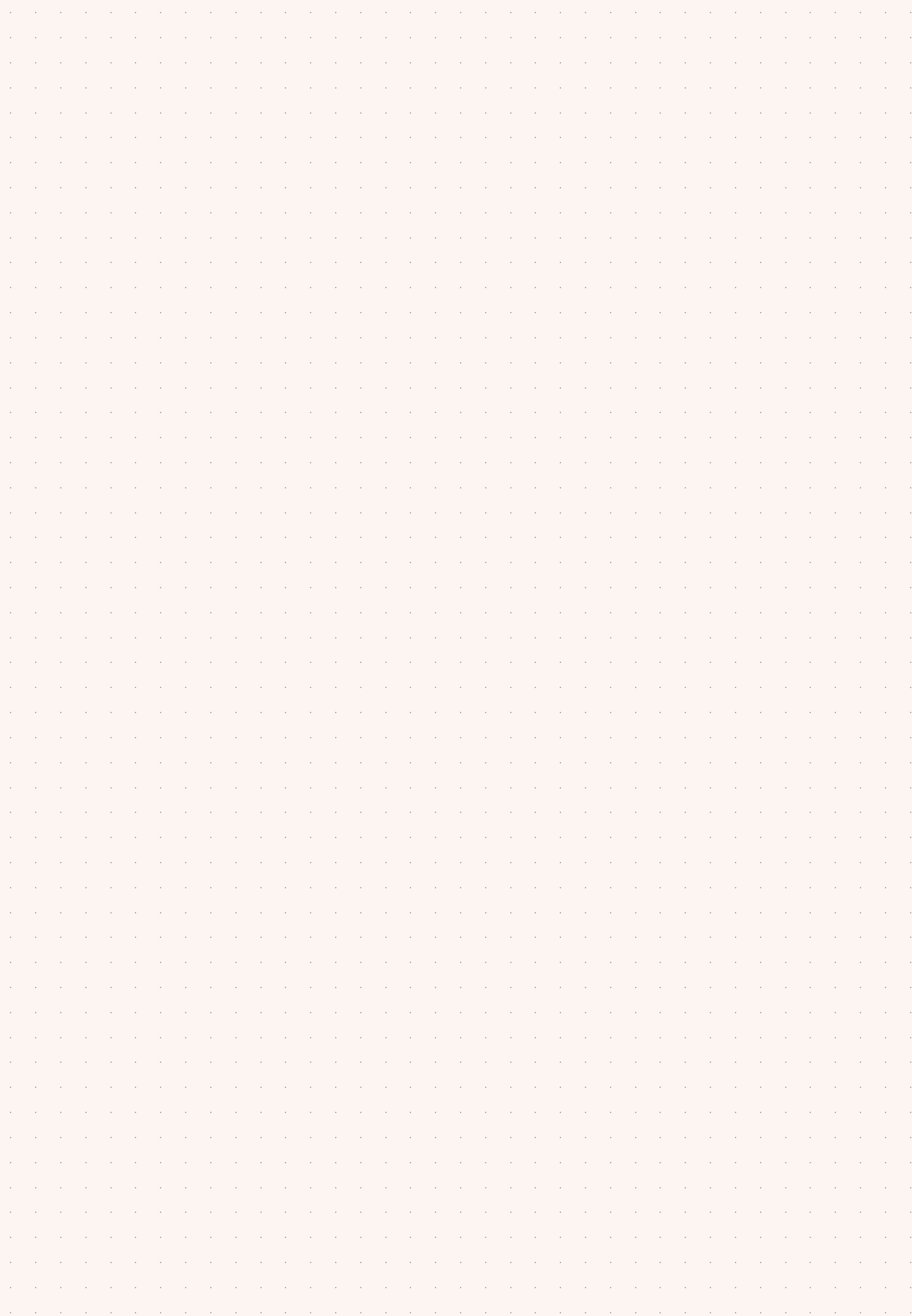
Check on our website to find all the information, security data sheets, technical data sheets and the latest news on our entire range of products. Always up to date.

www.itwcp.de 

Notes



Notes



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CRAMOLIN 



SCRUBS

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