



DEKASYL MS-1

Elastic sealant and adhesive

DEKASYL MS-1 is a universal elastic sealant and adhesive that cures under humidity. DEKASYL MS-1 is suitable for internal and external elastic seals and can be used in car, bus, train, and caravan construction (and more), as well as in the general and construction industries.

DEKASYL MS-1			
Art. No.	Size	Container	Colour
62611 34	290 ml	Cartridge	White
62612 34	290 ml	Cartridge	Grey
62613 34	290 ml	Cartridge	Black
62617 34	600 ml	Foilwrap	White

Your advantages:

- No solvents, isocyanate, silicone or PVC
- Excellent UV resistance and ageing resistance
- Generally good adhesion to most substrates without pretreatment
- Temperature-resistant from -40°C to +100°C
- Neutral and fast curing
- Suitable for sanitary facilities (fungicide-resistant)
- Compatible with most industrial painting or lacquering systems and with both alkyd resin and emulsion paints (due to the large number of different types of industrial paints, we recommend a compatibility test)

DEKASYL MS-1 elastic adhesive and sealant

Technical details

Product description

DekasyL MS-1 is a universal elastic sealant and adhesive that cures under humidity. DekasyL MS-1 is suitable for the production of internal and external elastic seals and can be used in car, bus, train, and caravan construction (and more), as well as in the general and construction industries. Also suitable as an adhesive for construction parts that do not pose major demands on the joint. DekasyL MS-1 based on MS polymer.

Application

- Elastic bonds and sealing in bus, caravan, mobile home, train, and lorry construction, for example.
- Elastic bonds and sealing in air and ventilation systems.
- Sealing of joints around windows, doors, etc.
- Sealing in the wood and metal industries.

- Sealing of GRP or aluminium profiles in the case of painted sheet metal panels.

Processing

DEKASYL MS-1 can be processed easily by hand or compressed air gun at temperatures from +5°C to 35°C. For sealing, DEKASYL MS-1 should be further processed or smoothed within 10 minutes (at 20°C / 50% rel. humidity) using a spatula or putty knife previously immersed in mild DEKAFINISHER. Avoid penetrating the soap solution between the bonding sides and the sealant as this will lead to a loss of strength. For bonding, the substrate must be put together within 15 minutes (at 20°C / 50% rel. humidity) after application of DEKASYL MS-1. The higher the temperature, the shorter the processing time. In general, a bonding thickness of 2 mm is recommended if similar materials (similar stiffening) are to be bonded. The greater the difference in thermal

expansion, the thicker the adhesive bead should be. For further information on this point, contact Dekalin. At a temperature of 20°C and a relative humidity of 50%, DEKASYL MS-1 can usually be coated with most industrial paints after 10 minutes. The best possible adhesion of paint layers will be achieved if the paint is applied 4 hours after using DEKASYL MS-1. Clean the tools or remove the uncured residual from DEKASYL MS-1 with a clean, colourless cloth that was soaked in DEKACLEAN ULTRA, for example (we recommend testing in advance whether the cleaning agent attacks the surface).

Adhesion

In general, DEKASYL MS-1 adheres well to clean, dry, dust- and grease-free substrates made of aluminium, stainless steel, galvanised steel, zinc, copper, brass, powder-coated metal, most coated metal surfaces, glass, PVC, polyester (GRP), painted and lacquered wood, etc. without pretreatment. Not suitable on PE, PP, PC, PMMA, and PTFE substrates. We recommend cleaning the substrate with DEKACLEAN ULTRA. We recommend carrying out a bonding test before use. In cases in which a high bonding effect is necessary due to high thermal or physical loads, in wet environments in particular, we recommend the use of DEKAVATOR. For the properties of substrates that are not on the list and more detailed information, please contact your DEKALIN customer service directly.

Storage

DEKASYL MS-1 can be stored in a closed (unopened) foil-wrap for 12 months in a dry place at a room temperature of +10°C to +30°C (cartridges 18 months).

Safety precautions

No special safety precautions necessary. Observe the safety data sheet.

Transport classification

Not applicable.

Consult the safety data sheet or the container label for safety notes.

Technical data

Colour (standard)	White, grey, and black
Base material	MS polymer
Curing/setting	Humidity
Specific density	Approx. 1.5 kg/l
Skin formation time (20 °C / 50% R.H.)	Approx. 10 minutes
Open time (20 °C / 50% R.H.)	<15 minutes
Cured after 24 h (20 °C / 50% R.H.)	Approx. 3 mm
Shore A hardness (DIN 53505)	Approx. 52
Volume change (DIN 52451)	<2%
Tensile stress (100%) (DIN 53504/ISO 37)	Approx. 1.3 MPa
Elongation at break (DIN 53504/ISO 37)	Approx. 2.2 MPa
Elongation at break (DIN 53504/ISO 27)	Approx. 300%
Solvent component	0%
Isocyanate component	0%
Temperature resistance	-40 °C to +100 °C
Application temperature	+5 °C to +35 °C
UV and weathering resistance	Good
Container sizes	290 ml cartridge, 600 ml foilwrap