

TECHNICAL DATA SHEET

DEKASYL MS-1 ELASTIC SEALANT & ADHESIVE

PRODUCT

Dekasył MS-1 is a universal elastic sealant and adhesive which cures with the humidity in the air. **Dekasył MS-1** is suitable for making internal and external elastic sealings and can be used in e.g. the automotive-, bus-, train-, caravan-, general- and building industry. Also suitable as adhesive where no strong demands are needed on the joint. **Dekasył MS-1** is based on MS Polymer.

APPLICATIONS

- Elastic bondings and sealings in e.g. bus-, caravan-, train- and truck construction.
- Elastic bondings and sealings in air- and ventilation systems.
- Sealing of joints around windows, doors, etc.
- Sealings in the wood- and metal industry.
- Sealing GRP or aluminium trims/profiles on painted or pre-coated panels.

FEATURES

- Solvent-, isocyanate-, silicone and PVC free.
- Good UV-resistance and ageing properties.
- In general good adhesion on several substrates without the use of a primer.
- Permanent elastic within temperatures from -40°C till $+100^{\circ}\text{C}$.
- Neutral and fast curing.
- Useable in sanitary rooms (fungicide resistant).
- Paint compatible with most industrial paint- or lacquer systems, both alkyd resin and dispersion based (due to the large scale of different types of industrial paints a paint compatibility test is recommended).

ADHESION

In general **Dekasył MS-1** adheres well without primer on clean, dry, dust- and grease free substrates of (anodized) aluminium, stainless steel, galvanised steel, zinc, copper, brass, powder coated metal, most lacquered metal surfaces, glass, PVC, polyester (GRP), painted and lacquered wood, etc. Not suitable on PE, PP, PC, PMMA, PTFE substrates. It is recommended to clean the surfaces with **Dekaclean Ultra** (it is advised to perform some adhesion tests before the application). In those cases where due to great thermal or physical loads, especially under wet conditions, high adhesion demands are needed, the use of **Dekavator** is recommended. For not mentioned substrates and additional information consult Dekalin.

METHOD OF USE

Dekasył MS-1 can easily be extruded with a hand- or air pressure gun at temperatures between $+5^{\circ}\text{C}$ and 35°C . In sealing applications **Dekasył MS-1** should be tooled or smoothed within 10 minutes (at $20^{\circ}\text{C}/50\% \text{R.H.}$) with a spatula or putty knife, occasionally moistened with a soap solution. Avoid soap solution penetrating between joint sides and sealant, because this will create loss of adhesion. In bonding applications the substrates have to be assembled within 15 minutes (at $20^{\circ}\text{C}/50\% \text{R.H.}$) after applying **Dekasył MS-1**. The higher the temperature, the shorter the open time will be! In general an adhesive thickness of 2 mm is recommended if similar materials (similar stiffnesses) are bonded. The larger the difference in thermal expansion is, the thicker the adhesive bead should be. For more details Dekalin should be consulted. **Dekasył MS-1** can be painted with the most industrial paints wet on wet. Best adhesion of paint coats is generally obtained if painted within 4 hours after applying **Dekasył MS-1**. Cleaning tools or removing uncured residue of **Dekasył MS-1** can be done with a clean colourless cloth, wetted with e.g. **Dekaclean Ultra**. It is recommended to make a trial first to check possible attack of the substrate by this cleaner.

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Basic material	: MS Polymer
Curing method	: moisture
Specific density (20°C)	: ca. 1.5 kg/liter
Skin forming time (20°C/50% R.H.)	: ca. 10 min.
Open time (20°C/50%R.H.)	: < 15 min.
Curing speed after 24 hrs (20°C/50%R.H.)	: ca. 3 mm
Shore A hardness (DIN 53505)	: ca. 60
Volume change (DIN 52451)	: < 2%
Tensile stress (100%) (DIN 53504/ISO 37)	: ca. 1.3 MPa
Tensile stress at break (DIN 53504/ISO 37)	: ca. 2.2 MPa
Elongation at break (DIN 53504/ISO 37)	: ca. 300%
Solvent percentage	: 0%
Isocyanate percentage	: 0%
Temperature resistance	: - 40°C till +100°C
Application temperature	: +5°C till +35°C
UV- and weather resistance	: good
Colours (standard)	: white, grey, black
Packaging	: 290 ml cartridges.

STORAGE STABILITY

Dekasyl MS-1 may be stored for 12 months in a closed (unopened) packaging in a dry place at temperatures between + 5°C and +30°C.

SAFETY PRECAUTIONS

Please see our latest EC safety data sheet for details.

TRANSPORT CLASSIFICATION

Not applicable.

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