



DEKASYL MS-5

High tack adhesive and sealant

DEKASYL MS-5 is an MS-polymer-based adhesive with high bonding strength and initial stability for creating elastic bonds between parts. Its excellent adhesion reduces clamping times or even eliminates the need for clamping altogether. Additionally, DEKASYL MS-5 can be used as a sealing compound as long as the materials to be bonded are similar (similar stiffness) or if mechanical fastening methods are used.

DEKASYL MS-5			
Art. No.	Size	Container	Colour
62522 34	290 ml	Cartridge	White
62523 12	600 ml	Foil bag	White
62524 34	290 ml	Cartridge	Black
62700 12	290 ml	SET	Black
62701 12	290 ml	SET	White

Your advantages:

- No solvents, isocyanate or PVC
- Excellent UV resistance and ageing resistance
- Excellent initial stability
- Generally good adhesion to most substrates without pretreatment
- Temperature-resistant from -40°C to +120°C
- Neutral, odourless and fast-curing
- Can be coated (wet on wet) after the skin forms; this does not generally impede curing
- 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 available, we recommend a compatibility test).

DEKASYL MS-5 High tack adhesive and sealant

Technical Details

Product description

DEKASYL MS-5 is an MS-polymer-based adhesive with high adhesive strength and initial stability for creating elastic bonds between parts. Its excellent adhesion reduces clamping times or even eliminates the need for clamping altogether. Additionally, DEKASYL MS-5 can be used as a sealing compound as long as the materials to be bonded are similar (similar stiffness) or if mechanical fastening methods are used.

Applications

- Elastic bonds and sealing in train, caravan, mobile home and lorry construction
- Bonding of windows, AT systems, solar module spoilers, semi-rigid solar modules or roof ducts

- Bonding the edge profiles of trailers with aluminium or polyester.
- Bonding polyester parts to metal frames.

How to use

DEKASYL MS-5 can be easily applied using a manual gun or a compressed air gun at temperatures from +5°C to 35°C. For sealing, DEKASYL MS-5 should be worked or smoothed within 12 minutes (at 20°C/50% R.H.) using a spatula or putty knife previously immersed in mild Dekafinisher. Do not allow DEKAFINISHER to penetrate between the bonding sides and the sealant as this will lead to a loss of adhesion. For bonding, the substrates must be put together within 15 minutes (at 20°C/50% R.H.) after application of DEKASYL MS-5. The higher the tem-

perature, the less time the product remains workable. In general, a 2-mm layer of adhesive is recommended for bonding similar materials (similar firmness). The greater the difference in thermal expansion, the thicker the layer of adhesive should be. For further information on this point, please contact Dekalin. At a temperature of 20°C and a relative humidity of 50%, DEKASYL MS-5 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-5. Clean the tools or remove uncured DEKASYL MS-5 residue with a clean, colourless cloth soaked in a cleaning agent such as DEKACLEAN ULTRA (we recommend testing in advance whether the cleaning agent damages the surface).

Adhesion

In general, DEKASYL MS-5 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 primer. No adhesion without pretreatment on polyethylene, polypropylene, and Teflon®. We recommend cleaning the substrates with DEKACLEAN ULTRA. We recommend carrying out a bonding test before use. In cases in which a strong bond is necessary due to high thermal or physical loads – in wet environments in particular – we recommend the use of DEKAVATOR 22 NF. For the properties of substrates that are not on the list and for more detailed information, please contact your DEKALIN customer service directly.

Storage

DEKASYL MS-5 can be stored in a sealed (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

Please consult our current material safety data sheet for further information.

Transport classification

Not applicable.

Technical Data

Colour (standard)	White, black
Base material	MS Polymer
Curing/setting	Humidity
Specific density	approx. 1.4 kg/l
Skin formation time (20°C/50% R.H.)	approx. 12 minutes
Open time (20°C/50% R.H.)	< 15 minutes
Cured after 24 h (20°C/50% R.H.)	approx. 4 mm
Shore A hardness (DIN 53505)	approx. 55
Volume change (DIN 52451)	< 3%
Adhesive strength (physical rheometer MC100) (Measure for the maximum amount of non-hardened adhesive that can be applied per m ² without running down)	approx. 700 Pa
Tensile stress (100%) (DIN 53504/ISO 37)	approx. 1.7 MPa
Tensile stress at break (DIN 53504/ISO 37)	approx. 2.8 MPa
Elongation at break (DIN 53504/ISO 27)	approx. 210%
Shear stress (DIN 53283/ASTM D1002)	approx. 2.5 MPa
Tear strength (DIN 53515/ISO 34)	approx. 14 N/mm
Solvent component	0%
Isocyanate component	0%
Temperature resistance	-40°C to +120°C
Temperature resistance (max. 20 minutes)	+180 °C
Application temperature	+5°C to +35°C
UV and weathering resistance	Excellent
Container sizes	290 ml cartridge, 600 ml foilwrap, other containers on request

Consult the safety data sheet

or the container label for safety notes.