

TECHNICAL DATA SHEET

DEKASYL MS-7 ELASTIC TRANSPARENT SEALANT

PRODUCT

Dekasyll MS-7 is a good compromise between a sealant and an adhesive. **Dekasyll MS-7** is suitable for making clear elastic sealings and elastic constructive joints. **Dekasyll MS-7** is based on MS Polymer.

APPLICATIONS

- Elastic bonding and sealing in e.g. caravan- and camper construction.
- Bonding and sealing of different coloured substrates.
- Topsealing of glass substrates to wood/metal connections.
- Topsealing of glass - glass (protect the interface with a special black glass primer).
- Sealing GRP or aluminium trims/profiles on painted or precoated panels.

FEATURES

- Solvent-, isocyanate- and PVC free.
- Good UV-resistance and ageing properties.
- In general good adhesion on several substrates without the use of a primer, e.g. Permanent elastic within temperatures from -40°C till $+100^{\circ}\text{C}$.
- Neutral, odourless and fast curing.
- Good resistance against fungi growth.
- Paintable after skin forming (wet on wet); this will in general not influence the curing speed.
- 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 **Dekasyll MS-7** adheres well without primer on clean, dry, dust- and grease free substrates of aluminium, stainless steel, galvanised steel, zinc, copper, brass, powder coated metal, most lacquered metal surfaces, glass, PVC, polyester (GRP), painted and lacquered wood, etc. No adhesion on untreated polyethylene, polypropylene and teflon. 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

Dekasyll MS-7 can easily be extruded with a hand- or air pressure gun at temperatures between $+5^{\circ}\text{C}$ and 35°C . In sealing applications **Dekasyll MS-7** 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 mild 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 **Dekasyll MS-7**. 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. At a temperature of 20°C and a relative humidity of 50% **Dekasyll MS-7** can be painted with the most industrial paints already 4 hours after application. Best adhesion of paint coats is generally obtained if painted within 4 hours after applying **Dekasyll MS-7**. Cleaning tools or removing uncured residue of **Dekasyll MS-7** 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. 1.06 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. 2,5 mm
Shore A hardness (DIN 53505)	: ca. 45
Volume change (DIN 52451)	: < 2%
Tensile stress (100%) (DIN 53504/ISO 37)	: ca. 1.2 MPa
Tensile stress at break (DIN 53504/ISO 37)	: ca. 2.4 MPa
Elongation at break (DIN 53504/ISO 37)	: ca. 250%
Shear stress (DIN 53283/ASTM D1002)	: ca. 1,9 MPa
(Alu-Alu; adh. thickness 2mm; test speed 50 mm/min.)	
Tear propagation (DIN 53515/ISO 34)	: ca. 8 N/mm
(Type C, test speed 500 mm/min.)	
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)	: transparent
Packaging	: 290 ml cartridges, other packaging on request.

STORAGE STABILITY

Dekasyl MS-7 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

No specific safety precautions required. Consult safety data sheet.

TRANSPORT CLASSIFICATION

Not applicable.

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