LASICA M505 — MS Polymer No-Nail Adhesive

LASICA M505 is a high-quality, professional one-component adhesive based on MS Polymer, with high adhesive strength and strong initial tack. It bonds heavy building materials without the use of clamps or fixing tape.

PACKAGING	SHELF LIFE	TECHNOLOGY	COMPONENTS
310 ml	18 months	MS Polymer	One-component

CHARACTERISTICS / ADVANTAGES

- High initial grab
- No solvent, silicone or isocyanate
- Semi-elastic bonding
- Very good UV resistance
- Excellent elasticity and adhesion
- Over-paintable (water-based paints)
- No bubble formation
- No shrinkage
- Primer-less adhesion on many substrates

APPLICATION

Bonds heavy building elements without clamps or tape:

- Wall cladding & ceiling panels
- Sound-insulation panels (mineral/wood-wool, foams)
- Thermal-insulation panels (PUR, PIR, PS)
- Casings and frames in construction
- Wooden/plastic laths, ornaments and frames
- Doorsteps, window sills, skirting boards
- Cover plates
- Roofing & façade elements in frame

HOW TO USE

A primer may be required on some substrates; consult your supplier. Cut the cartridge tip, fit the nozzle cut to the surface width. Apply the adhesive in vertical strips or dots on the element to be bonded.

1. Ensure surfaces are clean, dry and grease free (application temperature +5 °C to +40 °C).
2. Apply the adhesive in strips or dots; strips in vertical rows.
3. Join the parts within 10 minutes (depends on temperature and humidity).
4. Parts can still be adjusted, then press down firmly or tap with a rubber mallet.
5. Remove excess uncured adhesive with white spirit or alcohol; cured adhesive mechanically.
6. Recommended joint width/depth ratio: 2:1. Skins in ~20–30 min; full strength after 21 days.

STANDARDS & APPROVALS

- LEED EQc4.1 — Low-emitting products
- SCAQMD Rule 1168 (VOC content)
- Class A+ — French VOC emissions regulation
- CE Marking to EN 15651 — façade & glazing (DoP No. 2016-0002)

RESTRICTIONS

Do NOT use in the following cases:

- Totally confined spaces where the adhesive cannot cure (no atmospheric moisture)
- PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates
- Continuous exposure to water
- Movement joints
- When in doubt about a substrate, carry out a preliminary compatibility test

PRODUCT DATA

TYPICAL GENERAL CHARACTERISTICS	INSPECTION METHOD	VALUE
PRODUCT DATA (UNCURED)		
Density at 23 °C	ISO 1183-1 A	**1.48 ± 0.05 g/cm³**
Consistency	ISO 7390, profile U 20	**Non-sag**
Extrusion rate — volume flow at 23 °C	—	**280 ml/min**
Skin forming time at 23 °C / 50% r.h.	—	**20–30 min**
Curing time at 23 °C / 50% r.h.	—	**3.0 mm/day**
PRODUCT DATA (CURED) — AFTER 4 WEEKS' STORAGE AT 23 °C / 50% R.H.		
Tensile strength	ISO 8339	**1.80 N/mm²**
Elongation at break	ISO 8339	**350 ± 50 %**
Modulus at 100% elongation	ISO 8339	**0.55 N/mm²**
Hardness Shore A	ISO 868	**55 ± 5**
Tear strength	ISO 34, method C	**6.1 N/mm**
Combined tension and shear resistance	DIN 32622	**1.6 N/mm²**
Movement capability	ISO 11600	**25 %**

PACKAGING

- Cartridge: **310 ml**

TRANSPORT & STORAGE

- Transport: keep the sealed product away from moisture, sun and high temperature; avoid collisions.
- Storage: keep sealed in a cool, dry place. Temperature 5–25 °C, humidity ≤ 50% RH.
- Shelf life: **18 months** (cartridge, sealed product).

SAFETY

For safe handling, storage and disposal, always refer to the most recent Safety Data Sheet (SDS), which contains physical, ecological, toxicological and other safety-related data.

The information in this technical data sheet is based on our current knowledge and experience of the product when properly stored, handled and applied under normal conditions. As materials, substrates and site conditions vary, the user is responsible for verifying the product's suitability for the intended application through preliminary testing. LASICA accepts no liability for any improper use.