

MC-Adhesive PU Solid

Multi-purpose adhesive for sealing construction materials, surface of cracks, and for gluing pump needles.

PRODUCT PROPERTIES:

- Two-component, high-viscosity polyurethane adhesive.
- Flexible and easy to adhesive.
- No slip, no sagging.
- Good adhesion to mineral and metal surfaces.
- The fast curing time makes application easy and convenient.
- Easy to mix.
- Easy to plaster.
- Meets the requirements of the European REACH regulation – The product is safe for long-term contact with water and inhalation during application.
- EPD (Environmental Product Declaration) certificate.

AREAS OF APPLICATION:

- Can stick metal materials, steel, and construction minerals (such as cement, concrete, stone, ...).
- Seal the surface of cracks.
- Stick the pump needles before injecting.
- Seal cracks and surface defects.

APPLICATION NOTES:

- **Substrate preparation:** Before pumping, it is necessary to check and survey the condition of the structure and the condition of seepage according to current standards and technical regulations. An overall pumping project needs to be planned from the outset. The pump needles need to be installed first. It is recommended to test pumping before mass deployment.
- **Mixing:**
 - **MC-Adhesive PU Solid** consists of two components. Composition (base) A and component (curing promoter) B. The mixture should be mixed with a slow speed mixer for about 2 minutes. Wait a few minutes for the chemical ingredients to take full effect. Before use, mix again for about 1 minute. For special applications, the product can be tuned for increased stability using the **MC-Stellmittel TX 19** (1% – 2% by mass).
 - The application time of the mixture after mixing is about 30 minutes under room conditions. This time depends on the mass of the mixture and the ambient temperature.
- **Application:** **MC-Adhesive PU Solid** products are easily applied by trowel or special tools. Time to withstand load is about 4 hours (at 20°C) after application. This time depends on the substrate temperature, adhesive layer thickness and ambient temperature. Application should be stopped immediately if the temperature of the substrate or adhesive components falls below +50°C. For more detailed information, please refer to the product's user manual and safety information.
- **Cleaning:** During construction, equipment and tools can be cleaned with MC-Verdunnung PU (MC-Thinner PU). Parts that have cured, adhered to the tool, can be cleaned partially or completely by mechanical methods.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Mixing ratio	Volume	7.35 : 1	Component A : Component B
Density – Mixture		1.703	DIN 53 479
Density – Component A	Kg/dm ³	1.8	DIN 53 479
Density – Component B		1.22	DIN 53 479
Form		Slurry	
Pot life	Minutes	20	
Application temperature	°C	+5 to +40	Materials, air and surface temperature
Tensile strength after 24h	M/mm ²	12.93	DIN EN ISO 527-1; dumbbell specimen
Elongation after 24h	%	14	DIN EN ISO 527-1; dumbbell specimen
Shore A hardness after 24h		90	DIN ISO 7619-1
Adhesion to concrete:			
After 24h	N/mm ²	3.0	ENISO 4624
After 7 days		4.56	Stamp D50mm, 300 N/s
Adhesion to sanded steel after 24h	N/mm ²	3.9	ENISO 4626

Safety advice:

Please note the safety information and advice on the packaging label and the safety information GISCODE: PU40.

PRODUCT CHARACTERISTICS:

Color	Grey
Packaging	Set of 2.5 kg and 5kg
Cleaning	MC-Verdünnung PU (MC-Thinner PU). Do not use water and water-based solutions for washing under any circumstances.
Shelf-life and storage	Shelf life at least 18 months when stored at +5°C to +35°C in dry condition and in original packaging. Shipping terms: Same requirement.
Disposal	Product must be emptied before disposal.

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

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