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# 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.


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## TECHNICAL DATA:

| Characteristic | Unit | Value | Comments |
|---|---|---|---|
| Mixing ratio | Volume | 7.35 : 1 | Component A : Component B |
| Density – Mixture<br>Density – Component A<br>Density – Component B | Kg/dm³ | 1.703<br>1.8<br>1.22 | DIN 53 479<br>DIN 53 479<br>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/mm² | 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:<br>After 24h<br>After 7 days | N/mm² | <br>3.0<br>4.56 | <br>ENISO 4624<br>Stamp D50mm, 300 N/s |
| Adhesion to sanded steel after 24h | N/mm² | 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).<br>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.<br>Shipping terms: Same requirement. |
| **Disposal** | Product must be emptied before disposal. |



Edition **01/2024**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.