



## SOUPLETHANE UR5 PUTTY

Solvent-free, two-component polyurethane resin having a suitable thixotropy for sealing applications (paste).

### Application Fields

SOUPLETHANE UR5 PUTTY is used on every substrate for :

- crack sealing in concrete and steel
- sealing of manhole covers
- sealing of telephone cables in PVC sheaths
- sealing of pipes through walls

### Characteristics

|                        |   |                          |  |
|------------------------|---|--------------------------|--|
| <b>Chemical Nature</b> | 2-Component polyurea-urethane resin (aromatic)  | <b>Mixing ratio</b>      | Comp. A / Comp. B = 4 / 1 in volume                  |
| <b>Composition</b>     | Component A - polyol : Colored opaque liquid<br>Component B – isocyanate : Transparent amber liquid | <b>Density (at 20°C)</b> | Mixture A+B : 1.28 g/ml<br>(DIN 53217 / EN ISO 2811) |
| <b>Solvent-free</b>    | 100 % solid content (ISO 1515)  | <b>Bisphenol A-free</b>  |  |
| <b>Colors</b>          | gris-grey (prox. Ral 7040)  |                          |  |

### Advantages

|  |                         |
|--|-------------------------|
| Easy application with pre-dosed cartridges                                     |                         |
| Application to any climatic condition (temperature, humidity)                  |                         |
| No shrinkage, which guarantees waterproofing after polymerization of the resin |                         |
| Excellent adhesion on concrete without primer or any preparation               | Paste product           |
| Crack bridging   | Bisphenol A-free        |
| Fast start-up time   | Solvent-free, odor-free |
| Easy application   | No chalking             |

### Properties

|   |  |   |   |
|---|--|---|---|
| Concrete adhesion                         | <b>3.5 MPa</b><br>(concrete failure)<br>(NF EN 1542) | Shrinkage                                   | <b>0</b>                                  |
| Steel adhesion                            | <b>23 MPa</b><br>(NF EN 1542)                        | Tensile strength                            | <b>21 MPa</b><br>(NF EN ISO 527-3)        |
| Service temperature (air)                 | <b>- 50°C</b><br><b>to + 160°C</b>                   | Elongation                                  | <b>35 %</b><br>(NF EN ISO 527-3)          |
| Fire resistance                           | <b>Bfl-S1</b><br>(NF EN 13501-1 + A1 :2013)          | Shore D Hardness                            | <b>75</b><br>(ISO 868)                    |
| Chemical resistance                       | <b>1 &lt; pH &lt; 13</b>                             | Compression strength                        | <b>113 MPa</b>                            |
| Resistance to Radon gaz / compared to PVC | Attenuation Coeff. C1/C2<br><b>159 000 / 9</b>       | Chloride permeability                       | <b>&lt;10 coulombs</b><br>(ASTM C 1202)   |
| Resistance to back pressure               | <b>1 MPa</b>   | Service temperature (in immersion in water) | <b>80°C</b>                               |
| Chemical attack due to concrete           | <b>No effect</b>                                     | Water permeability                          | <b>No penetration</b><br>(DIN 1048)       |
| Thermal shock resistance                  | <b>- 50 °C to + 160°C</b>                            | Salt spray resistance                       | <b>2 000 hours</b><br>(ASTM B117 / D1654) |

|                  |   |
|------------------|---|
| <b>Packaging</b> | <b>in 2-component cartridges</b>  |
| 400 ml           | Pre-dosed Kit<br>(2 nozzles + 1 disposable static mixer included per kit) |

### Storage

From the date of manufacture and in original unopened packaging, under cover at more than 5 °C in a cool, ventilated place (frost free)  
Shelf life : 12 months

*This product is used in accordance with the provisions of the Specifications, Technical Specifications, Technical Advice of the Company*

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## Implementation

|  |   |   |              |            |
|--|---|---|--------------|------------|
| <b>Preparation of the mixture</b>  | <input type="checkbox"/> Without preparation of the mixture<br><input type="checkbox"/> The static mixer is connected to the cartridge<br><input type="checkbox"/> The cartridge is connected to a manual gun or a pneumatic gun (small air compressor required on site)<br><input type="checkbox"/> The resin is mixed in the static mixer |   |              |            |
|  | <b>Application</b>  |   |              |            |
|  |   | <input type="checkbox"/> Using the static mixer, the resin is poured into the volume to be filled to ensure the waterproofing<br><input type="checkbox"/> Cast resin thickness can be high<br><input type="checkbox"/> Possible application under any climatic condition (temperature, humidity)<br><input type="checkbox"/> Possible application on humidity |              |            |
| <b>Substrate temperature</b>   |   | -20°C min. / +70°C max.   |              |            |
| <b>Covering time</b>   |   | 4 hours   |              |            |
| <b>Pot life</b>  | Temperature   | + 10°C  | + 20°C       | + 30°C     |
|  | Pot life  | ~ 15 minutes  | ~ 10 minutes | ~5 minutes |
|  | The pot life decreases as the temperature and / or amount of prepared product increases.  |   |              |            |
| <b>Drying / Start-up time</b>  | Temperature   | + 10°C  | + 20°C       | + 30°C     |
|  | Light loads   | 30 hours  | 24 hours     | 12 hours   |
|  | Full cure   | 15 days   | 9 days       | 7 days     |
| These data are only indicative because the curing time varies according to the drying conditions (temperature and relative humidity in particular) |   |   |              |            |

### Cleaning tools

Tools are cleaned with acetone or MEK immediately after use. In the cured state, the product can only be removed mechanically.

### Notes on the application / limits

- Incorrect treatment of substrate defects will reduce the life of the coating.

## Qualifications

Fire resistance: Bfl-S1

European flooring standards : N°RSET -09-260138

HQE A++ / Class A+ : Regulatory Labeling of VOC Emissions and Compliance with the AgBB Protocol (2012)

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