PROTEGOL® UR Coating 32-46

two-component polyurethane coating

**Description**

PROTEGOL® UR Coating 32-46 is a two-component polyurethane coating. The product meets the requirements of AWWA C222-08. Application is made by 2K airless hot spray system.

**Uses**

- Internal and external coating
- Pipes, pipe bends

**Benefits**

- Good impact resistance
- Abrasion resistant
- Good corrosion protection
- Good chemical resistance

**Referenced standards**

AWWA C222-08 Polyurethane Coatings for the Interior and Exterior of Steel Water Pipe and Fittings

**Product data**

The following data has been obtained at +23°C unless otherwise stated:

- **Type**
  - polyurethane
- **Component A (base)**
  - polyol
- **Component B (hardener)**
  - isocyanate

- **Physical state:**
  - Component A: liquid
  - Component B: liquid

- **Viscosity**
  - Comp. A at 25 °C: 4500 mPa*s
  - Comp. B at 25 °C: 150 mPa*s

- **Density (g/cm³)**
  - Comp. A: 1.43
  - Comp. B: 1.20
  - Comp. A + B: 1.35

- **Mixing Ratio Comp A : Comp B**
  - Gravimetric: 71.29
  - Volumetric: 2.0:1.0

**Coating properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended dry film thickness (DFT)</td>
<td>≥1500 µm</td>
</tr>
<tr>
<td>Actual required DFT may vary in certain applications, please contact us for technical clarification.</td>
<td></td>
</tr>
<tr>
<td>Service temperature</td>
<td>-20 °C to 80 °C</td>
</tr>
<tr>
<td>Short term temperature load without temperature gradient to the substrate</td>
<td>110 °C</td>
</tr>
<tr>
<td>T min substrate</td>
<td>10 °C</td>
</tr>
<tr>
<td>min. +3°C above dew point</td>
<td></td>
</tr>
<tr>
<td>Processing temperature</td>
<td></td>
</tr>
<tr>
<td>Component A</td>
<td>40 °C / 60 °C</td>
</tr>
<tr>
<td>Component B</td>
<td>30 °C / 50 °C</td>
</tr>
<tr>
<td>Max. relative air humidity</td>
<td>80 %</td>
</tr>
<tr>
<td>Potlife at 25 °C</td>
<td>10 min</td>
</tr>
<tr>
<td>Hardness Shore D</td>
<td>70 ±5</td>
</tr>
</tbody>
</table>

**Release 7/7/2020**
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Adhesion to steel, pull off test 28 MPa
Flexural strength Req. fulfilled
Cleaning agent Solvent B, G
Repair material PROTEGOL PU Repair

Colours

Blue
Other colours on request (subject to technical feasibility and minimum order quantities)

Coverage, theoretical

Approx. 1.35 kg/m² at 1.000 µm DFT and not considering excess consumption.

Packaging

Component A Component B
barrel 250,00 kg barrel 225,00 kg
hobbock 30,00 kg hobbock 25,00 kg

Shipping and Storage Regulations, Application, Health and Safety

Storage:
In a cool and dry place shelf life is approx. 24 months in tightly closed original packs.

Maintenance of tools:
Immediately after use, all tools should be cleaned with Solvent B, G.

Refer to our general work instructions for PROTEGOL® Coatings.
Refer to our safety data sheets prior to use.
Carefully read and follow all safety instructions on labels and packaging. Handle and store material with care in accordance to the safety data sheets.
Follow and observe any applicable local or national laws and regulations.
Regulations regarding explosion protection with regard to the construction and equipment of facilities (machines) can be found, among other sources, in the corresponding harmonized European standard (DIN EN 16985 "Spray booths for organic coating material - Safety requirements" (former DIN EN 12215 and DIN EN 13355); furthermore, local laws and/or regulations must be observed.
Contact us to make sure you have the latest version of safety data sheet, technical data sheet and work instruction at hand.