**PROTEGOL® PU Repair**
two-component polyurethane coating

### Description
PROTEGOL® PU Repair is a two-component polyurethane coating. The product meets the requirements of DIN EN 10290:2002. Application is made by mechanical operating dispenser. For repair work of all PROTEGOL® UR Coatings.

### Uses
Internal and external coating of
- Pipes, pipe bends
- Fittings
- Field joints
- Metal surfaces prone to corrosion
- Bonding of anodes in cathodic corrosion protection

### Benefits
- Very fast reaction and curing time
- Easy to use
- No waste of material
- Excellent corrosion protection

### Referenced standards
DIN EN 10290:2002  Steel tubes and fittings for onshore and offshore pipelines - External liquid applied polyurethane and polyurethane-modified coatings

### 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: pasty
- **Viscosity**:
  - Comp. A at 25 °C: 5500 mPa*s
  - Comp. B at 25 °C: 4000 mPa*s
- **Density (g/cm³)**:
  - Comp. A: 1,24
  - Comp. B: 1,24
  - Comp. A + B: 1,24
- **Mixing Ratio Comp A : Comp B**:
  - Gravimetric: 50:50
  - Volumetric: 1,0:1,0

### Coating properties
- **Recommended dry film thickness (DFT)**: ≥1500 µm
- **Overcoating period, min.**: 5 min
- **Service temperature**: -20 °C to 80 °C
- **Short term temperature load without temperature gradient to the substrate**:
  - 110 °C
  - 5 °C
- **Min. 5°C above dew point**
- **Processing temperature**:
  - Component A: 15 °C to 35 °C
  - Component B: 15 °C to 35 °C
- **Max. relative air humidity**: 80%
- **Potlife at 23 °C**: 60 sec
- **Hardness Shore D**: 75 ±5

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Impact resistance (max. impact energy) 14 J/mm
Adhesion to steel, pull off test 18 MPa
Cathodic disbondment after 28 d at 23 °C 1,50 mm
Specific electrical insulation resistance after 100 d at 23 °C 1,7 < 10^8 Ωm²
Thermal aging, adhesion, pull off test 100 d at 100 °C 16 MPa
Flexural strength Req. fulfilled
Elongation at break [%] 17
Cleaning agent Solvent B, G

Colours
RAL 9011 - Graphite black
Other colours on request (subject to technical feasibility and minimum order quantities)

Coverage, theoretical
One cartridge (2 x 25 ml) will cover approx. 50 cm² at 1.000 µm DFT and not considering excess consumption.

Packaging
Component A Component B
2K cartridge 0,03 kg 0,03 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.

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