



# TIBCHEMICALS

## 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/cm <sup>3</sup> )	
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
<small>Actual required DFT may vary in certain applications, please contact us for technical clarification.</small>	
Overcoating period, min.	5 min
Service temperature	-20 °C to 80 °C
Short term temperature load without temperature gradient to the substrate	110 °C
T min substrate	5 °C
<small>min. +3°C above dew point</small>	
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

Release 7/7/2020

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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	$1,7 < 10^8 \Omega\text{m}^2$
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 cm<sup>2</sup> 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.

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.

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