



TIBCHEMICALS

PROTEGOL® UR Coating 32-60 Cartridge two-component polyurethane coating

Description

PROTEGOL® UR Coating 32-60 Cartridge is a two-component polyurethane coating supplied in cartridges. The product meets the requirements of DIN EN 10290:2002.

Application is made by air-assisted pneumatic dispenser. Internal and external anticorrosion protection coating for new and to-be-rehabilitated pipes and welds of steel pipelines. Can also be applied as internal coating for industrial, desalinated and marine waters at ambient temperature.

Uses

External coating of

- Pipes, pipe bends
- Fittings
- Field joints
- Tanks, containers
- Repair of factory and field coatings

Internal coating of

- Pipes, pipe bends

Benefits

- Excellent corrosion protection
- Very fast reaction and curing time
- Fast mechanical capacity
- Easy to use
- No flushing - no solvent

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	liquid

Viscosity	
Comp. A at 25 °C	2600 mPa*s
Comp. B at 25 °C	800 mPa*s

Density (g/cm ³)	
Comp. A	1,20
Comp. B	1,20
Comp. A + B	1,20

Mixing Ratio Comp A : Comp B	
Gravimetric	50:50
Volumetric	1,0:1,0

Coating properties

Recommended dry film thickness (DFT) ≥1500 µm

Actual required DFT may vary in certain applications, please contact us for technical clarification.

Service temperature -20 °C to 80 °C

Short term temperature load without temperature gradient to the substrate 110 °C

T min substrate 5 °C

min. +3°C above dew point

T min / max Component A 25 °C / 45 °C

T min / max Component B 25 °C / 45 °C

Max. relative air humidity 80 %

Potlife at 35 °C 25 sec

Hardness Shore D (±5) 75

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Impact resistance (max. impact energy)	12 J/mm
Adhesion to steel, pull off test	23 MPa
Cathodic disbondment after 28 d at 23 °C	1,70 mm
Specific electrical insulation resistance after 100 d at 23 °C	4,6 * 10 ⁸ Ωm ²
Thermal aging, adhesion, pull off test after 100 d at 100 °C	26 MPa
Flexural strength	Req. fulfilled
Elongation at break [%]	16
Cleaning agent	Solvent B, G
Repair material	
PROTEGOL® PU Repair,	
PROTEGOL® UR Coating 32-45/55 L (Cartridge),	
PROTEGOL® UR Coating 32-60 (Cartridge)	

Colours

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

Coverage, theoretical

Approx. 1,20 kg/m² at 1.000 µm DFT and not considering excess consumption.

Packaging

Component A	Component B
2K cartridge 0,90 kg	0,90 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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