



# TIBCHEMICALS

## PROTEGOL® UR Coating 32-45 RM two-component polyurethane coating

### Description

PROTEGOL® UR Coating 32-45 RM is a two-component polyurethane coating. It is certified according to DIN EN 10290, 08.2004.

### Application method

2K airless hot spray system

### Uses

Internal and external coating of

- Pipes, pipe bends
- Fittings
- Tanks, containers
- Piling pipes

### Benefits

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

### Product data

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

Type	two-component polyurethane coating
Component A (resin)	polyol
Component B (hardener)	isocyanate
Dry residue [%]	100

Physical state:	
Component A	pasty
Component B	pasty

Viscosity	
Comp. A at 50 °C	11600 mPa s
Comp. B at 25 °C	200 mPa s

Density (g/cm <sup>3</sup> ) (at 0 °C)	
Comp. A	1,50
Comp. B	1,24
Comp. A + B	1,44

Mixing ratio comp A : comp B	
Gravimetric	78,5:21,5
Volumetric	3,0:1,0

Recommended dry film thickness (DFT)	
	≥1500 µm

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

Overcoating period, min.	3 min
Overcoating period, max.	3 d

Operating temperature, min.	-20 °C
Operating temperature, max.	80 °C
Short term temperature load without temperature gradient to the substrate	110 °C
T min substrate	10 °C
T min / max Component A	50 °C / 80 °C
T min / max Component B	20 °C / 50 °C

Max. humidity	80 %
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Potlife (60 °C)	45 sec.
Potlife (0 °C)	0
Shore D (±5) acc. to ?	74

Impact resistance (max. impact energy)	8 J/mm
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TIB Chemicals AG | Muelheimer Straße 16 -22 | 68219 Mannheim | P.O. 81 02 20 | 68202 Mannheim | GERMANY  
Telefon +49 621 8901-812 | Fax +49 621 8901-902 | info.protegol@tib-chemicals.com | [www.tib-chemicals.com](http://www.tib-chemicals.com)

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Adhesion test	11 MPa
Cathodic disbondment after 28 d at 23 °C	4,60 mm
Specific electrical insulation resistance after 100 d at 23 °C	11x10 <sup>9</sup> Ωm <sup>2</sup>
Thermal aging, adhesion, pull off test after 100 d at 100 °C	16 MPa
Flexural strength	Requirement fulfilled
Elongation at break [%]	18
Cleaning Agent	Solvent G, B
Repair material	PROTEGOL PU Repair Material, PROTEGOL UR Coating 32-45/55L

### Holiday testing:

Holiday detection is carried out acc. to DIN EN 10290 (DIN EN 10289 for epoxy coatings) with a voltage of 8 V/μm of nominal dry film thickness (max. 20 kV).

### Maintenance of tools:

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

For more details, please refer to our general work instructions for PROTEGOL® Coatings, available on request.

You have to read and abide the information in the safety data sheets, likewise available on request. Contact us to make sure you have the latest version of safety data sheet, technical data sheet and work instruction at hand.

### Colors<sup>1</sup>

Light ivory RAL 1015; Squirrel grey RAL 7000; Graphite black RAL 9011  
Other colors on request (subject to technical feasibility and minimum order quantities)

<sup>1</sup> Color deviation up to ΔE 2,5

### Coverage

Approx. 1,44 kg/m<sup>2</sup> at 1.000 μm dry film thickness (calculated value) without consideration of excess consumption.

### Packing (kg net)

Component A	Component B
barrel 300,00 kg	barrel 250,00 kg
hobbock 30,00 kg	hobbock 25,00 kg

### Shipping and Storage Regulations, Application, Health and Safety

#### Storage:

In a cool and dry place approx. 24 months in tightly closed original packs.

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