



# TIBCHEMICALS

## PROTEGOL® EP Coating 32-89 S two-component epoxy coating

### Description

PROTEGOL® EP Coating 32-89 S is a two-component epoxy coating. The product meets the requirements of DIN EN 10289:2002. Application is made by 2K airless hot spray system. Handling of the coated pipes must be in accordance with DIN EN 10289: 2002, para. 11.

### Uses

External coating of

- Pipes, pipe bends
- Fittings
- Tanks, containers

### Benefits

- Excellent corrosion protection
- Good adhesion to steel
- Abrasion-resistant and impact-resistant
- Good chemical resistance

### Referenced standards

**DIN EN 10289:2002** Steel tubes and fittings for onshore and offshore pipelines - External liquid applied epoxy and epoxy-modified coatings

### Product data

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

Type	epoxide
Component A (base)	epoxide
Component B (hardener)	amine

Physical state:

Component A	pasty
Component B	pasty

Viscosity

Comp. A at 25 °C	6700 mPa*s
Comp. B at 25 °C	5000 mPa*s

Density (g/cm<sup>3</sup>)

Comp. A	1,54
Comp. B	1,39
Comp. A + B	1,49

Mixing Ratio Comp A : Comp B

Gravimetric	69:31
Volumetric	2,0:1,0

### 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
T min substrate	10 °C
min. +3°C above dew point	

Processing temperature

Component A	40 °C to 60 °C
Component B	40 °C to 60 °C

Max. relative air humidity 80 %

Potlife at 60 °C 2 min

Hardness Shore D 85 ±5

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Impact resistance (max. impact energy)	5 J/mm
Adhesion to steel, pull off test	15 MPa
Cathodic disbondment after 28 d at 23 °C	2,30 mm
Specific electrical insulation resistance after 100 d at 23 °C	7,0 x 10 <sup>9</sup> Ωm <sup>2</sup>
Thermal aging, adhesion, pull off test after 100 d at 100 °C	13 MPa
Cleaning agent	Solvent G
Repair material	
PROTEGOL® EP Coating 32-89 S/L	

### Colours

Comp. A: yellow  
 Comp. B: blue  
 Comp. A+B: green  
 Other colours on request (subject to technical feasibility and minimum order quantities)

### Coverage, theoretical

Approx. 1,49 kg/m<sup>2</sup> at 1.000 µm DFT and not considering excess consumption.

### Packaging

Component A	Component B
hobcock 30,00 kg	hobcock 30,00 kg
barrel 250,00 kg	barrel 250,00 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 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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