#### The tailor-made corrosion protection system

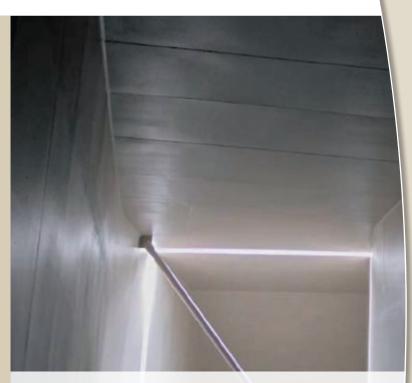
# **COROFLAKE 28**



**COROFLAKE 28** is a two-component, flake-filled vinyl ester spray coating. The innovative design of this system makes it ideally suited to the higher temperature environments typically found in coal power stations.

#### Application areas

Due to its excellent chemical resistance against aliphatic and aromatic solvents **COROFLAKE 28** is used as corrosion protection in the container construction industry. Its high diffusion resistance, temperature resistance as well as the resistance against acids make **COROFLAKE 28** an essential material in FGD systems.



Clean gas duct



Clean gas duct deflecting plates

#### Typical fields of use

- Raw and clean gas ducts as well as heat exchangers for FGD systems
- Steel containers for chemicals with higher solvent content
- Wastewater treatment plants in the chemical industry

## Advantages

- Quick, simple processing
- Reduced plant/component downtime
- Very low diffusion value effected by glass flakes
- Good solvent resistance
- High temperature resistance



ONE BRAND - ONE SOURCE - ONE SYSTEM

# The tailor-made corrosion protection system

# **COROFLAKE 28**



### **Product properties**

| Product characteristics | Highly reactive, two-component Novolac vinyl ester coating system     Glass flakes act as barrier to diffusion |
|-------------------------|--|
| Processing              | <ul><li>Airless spraying</li><li>Conventional spraying possible</li></ul>                                      |
| Storage stability       | <ul> <li>3 months at 20°C</li> <li>Prolonged shelf life if stored at lower temperatures</li> </ul>             |

#### **Technical data**

| Temperature resistance | ASTM STP 837                       | 70°C wet (thermally insulated) 180°C dry |
|------------------------|------------------------------------|--|
| Specific weight        | DIN EN ISO 1183                    | 1.2 kg/l (mixture)                       |
| Viscosity              | DIN EN ISO 2884-2 (ASTM D 2196-05) | 2,250 mPas +/- 250                       |
| E-Module               | DIN EN ISO 178:2006-04             | 3,500-4,500 MPa                          |
| Tensile strength       | DIN EN ISO 527                     | 40 MPa                                   |
| Elongation at break    | DIN EN ISO 527                     | 0.5 %                                    |
| Expansion coefficient  | DIN 53752 (ASTM D 696-03)          | 27-30 x 10 <sup>-6</sup> 1/° C           |
| Abrasion               | ASTM D 4060-07                     | 90 mg                                    |
| Water vapour diffusion | ASTM E96/E96M-05                   | 0.001 perm-inch                          |
| Bond strength          | DIN EN ISO 4624:2003-08            | 7 N/mm² (to C-steel)                     |
| Hardness               | DIN EN 59                          | 35 Barcol                                |

Full physical properties are reached after 7 days at 23°C and a layer thickness of 1.5 mm.

| Available container sizes | COROFLAKE 28   | 20 kg/5 kg containers    |
|---------------------------|----------------|--------------------------|
|                           | Hardener No. 1 | 400 g / 100 g containers |

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