

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

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Product properties

Product characteristics	<ul style="list-style-type: none">• Highly reactive, two-component Novolac vinyl ester coating system• Glass flakes act as barrier to diffusion
Processing	<ul style="list-style-type: none">• Airless spraying• Conventional spraying possible
Storage stability	<ul style="list-style-type: none">• 3 months at 20° C• Prolonged shelf life if stored at lower temperatures

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 D2196-05)	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 D696-03)	27 - 30 x 10 ⁻⁶ 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/mm ² (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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