

The corrosion protection system for the most demanding requirements

COROFLAKE 23

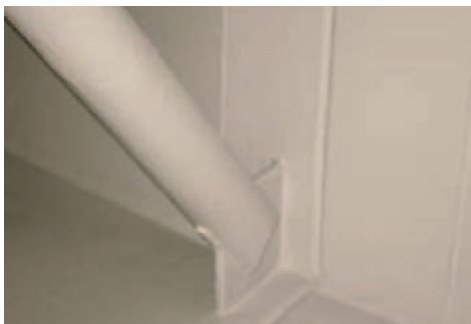
COROFLAKE 23 is a two-component, flake-filled vinyl ester spray coating. The unique formulation has enabled it to gain approval from the German Institute for Construction Engineering for the inner lining of steel containers (Z-59.13-283). The Technical Services Department of the RWE Power Group has drawn up a proof of suitability for the inner lining of raw and clean gas ducts in flue gas desulphurisation systems in brown coal power stations.

Application areas

The low water vapour diffusion, high temperature resistance and good resistance against inorganic acids make **COROFLAKE 23** ideal for the corrosion protection of steel and concrete components in chemical tanks and other plant processing apparatus.



Prefabricated chimney stacks



Junction plate with brace in a flue gas duct

Typical fields of use

- Flue gas ducts and heat exchangers for FGD and waste incineration plants
- Steel chimneys exposed to high temperatures and high water vapour diffusion
- Steel containers subject to the German Water Ecology Act
- Universal use for corrosion protection in the chemical industry

Advantages

- Quick, simple processing
- Proven coating system against aggressive media
- High temperature resistance
- Long service life
- High resistance to permeation
- Approved material

The corrosion protection system for the most demanding requirements

COROFLAKE 23



Product properties

Product characteristics	<ul style="list-style-type: none">• Highly reactive, two-component Novolac vinyl ester coating system• Inert flakes act as barrier to diffusion
Processing	<ul style="list-style-type: none">• Airless spraying• Conventional spraying, brushing or rolling
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 (ASTMD2196-05)	3,000 mPas +/- 250
E-Module	DIN EN ISO 178:2006-04	3,000 - 4,000 MPa
Tensile strength	DIN EN ISO 527	20 MPa
Elongation at break	DIN EN ISO 527	0.5 %
Expansion coefficient	DIN 53752 (ASTM D696-03)	25 - 30 x 10 ⁻⁶ 1/° C
Abrasion	ASTM D 4060-07	90 mg
Water vapour diffusion	ASTM E 96/E96M-05	0.0016 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 23	20 kg / 5 kg containers
	Hardener No. 1	400 g / 100 g containers

REMA TIP TOP GmbH
Business Unit Industrie

Gruber Strasse 63
Phone:
Fax:
www.rema-tiptop.com

85586 Poing/Germany
+49 81 21 707 - 245
+49 81 21 707 - 222
info@tiptop.de

Your local contact:

582 1361 - IV.08 Printed in Germany

