

TECHNICAL BULLETIN

COROFLAKE AR

Product Description: *COROFLAKE AR* is a two component, aluminium filled, Novolac vinyl ester topcoat. The vinyl ester resin provides excellent chemical resistance and firmly bonds the aluminium oxide fillers to achieve an extremely high abrasion resistant surface.

Recommended Uses: *COROFLAKE AR* provides outstanding resistance to surface wear. It should be used as a topcoat for *COROFLAKE 23* and *COROFLAKE 28* in some areas of the FGD system, which are subject to severe abrasion because of the velocities of flue gas and slurries used for scrubbing.

Temperature Resistance: + 180 °C dry + 200 °C for 15 min.

Generic Type: Novolac Vinyl Ester

Filler: Aluminium Oxide

Solvent: Styrene (reactive)

Design: The steel construction to be coated must be fabricated according to the DIN EN 14879-1:2005. Further information can be taken from our steel specification documents.

Build-up of the system:	Layer Thickness	Coverage
<i>COROFLAKE AR</i> Topcoat	1 x 400 - 600 µm	900 g/m ²

Mixing Ratio: 100:2 *COROFLAKE AR* Resin to HARDENER No. 1 by weight. Mix hardener into resin-based component, using a low speed mechanical agitator.

Pot Life:	1 ½ hrs. (+ 10 °C)	1 hrs. (+ 20 °C)	½ hrs. (+ 30 °C)
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Application Equipment: Conventional Air or Airless Spray.

Application: *COROFLAKE AR* topcoat shall be applied in one coat utilizing an airless or conventional air spray system. The base coat temperature and air temperature shall be @ + 10 °C to + 36 °C (3 K above dew point). The topcoat should be applied no more than three days after base coat application.

Note: During application the coated surface must be shaded from direct or indirect sunlight. Otherwise intercoat disbondment may occur.

Cleaning: Solvent T-100

Shelf Life: The shelf life is 3 months when stored @ + 20 °C. The material should be stored at a cool and dry place.

Density: 1.2 kg/l (mixed)

Viscosity: 2,200 – 2,800 mPas



Flash Point:	COROFLAKE AR Resin	+ 32 °C and
	HARDENER No. 1	+ 70 °C
Modulus of Elasticity:	3,500 – 4,500 MPa (DIN EN ISO 178) flexural	
Tensile Strength:	40 MPA (DIN EN ISO 527)	
Elongation at Tear:	0.5 % (DIN EN ISO 527)	
Coefficient of Expansion:	27 – 30 x 10 ⁻⁶ 1/°C (ASTM D 696-90) linear	
Abrasion:	55 mg (ASTM – D 4060)	
Adhesion:	7 N/mm ² (EN ISO 4624)	
Hardness:	35 Barcol (DIN EN 59)	

This Technical Bulletin is for informational purposes only. All data provided herein is based on in-depth research and testing, however no liability whatsoever can be assumed. Since we are constantly endeavouring to up-date and improve our products, we recommend noting the index and issue date indicated on this data sheet and to inquire as to whether any properties have changed in the interim. This Product Information Sheet replaces all prior issues. Please contact our Technical Consultant for detailed information in case of ambiguities.

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TIP TOP Oberflächenschutz Elbe GmbH	COROFLAKE AR	INDEX C of 10.02.2006
Page: 2/2	ATM	Replace Issue: 01.01.2005