

TECHNICAL BULLETIN

COROFLAKE 200 M (CR)

Product Description: **COROFLAKE® 200 M (CR)** is a three component, powder filled lining system. This system consists of one moisture tolerant primer, one trowel applied body coat, a 300 g/m² fiberglass mat as reinforcement and two spray applied flake filled topcoats to produce a total DFT of 2.5 – 3.5 mm nominal.

Recommended Uses: This high performance lining system provides excellent chemical resistant coating system for concrete surface with excellent resistance to 98% sulphuric acid, along with good corrosion resistance to solvents. It is particularly well suited for areas subjected to immersion, fumes, splash and spillage of acids, caustics and waste effluents.

Temperature Resistance: + 50°C Immersion, Constant Flow

Generic Type: Novolac-Epoxy Resin (Saturant resin and Top Coat)

Filler for Body Coat: Body Coat: F 1 Silica Powder

Filler for Topcoat:: Inert-Flakes

Solvent: ---

Design: EN 14879-1:2005 or TIP TOP "Design and Preparation of Concrete"

Preparation: Concrete must be free of oils, curing solutions or other contaminants. Remove laitance by abrasive blasting. If dust is a problem, wet blasting may be used. Allow to dry. The resulting surface should be at least as rough as 40 grit sandpaper. If concrete is in doubtful condition contact TIP TOP for specific instructions before proceeding.

Build-up of the system:		Coverage
Coroflake 68 Primer	+ Hardener No. 4	300 g/m ²
Coroflake 200 Base coat	+ Hardener No.4 Filler F-1 Powder	1,000 g/m ² 2,400 g/m ²
Coroflake 200 Reinforcement	Glass mat 300 g/m ² Resin + Hardener No.4	330 g/m ² 660 g/m ²
Coroflake 200 Topcoat	Comp. "A" + Comp. "B"	1,700 g/m ²

Mixing Ratio: For primer, for Base coat and saturant 12 : 3,6 resin to hardener by weight. Mix hardener into resin using a low speed mechanical agitator. For body coat, stir 2400 g of the silica filler slowly into the 1000 g of the mixed resin until its a well-dispersed semi-thixotropic mortar. For both topcoats each component should be premixed because of settling that may occur during shipping and storage. Pour Component "B" into Component "A" while mixing slowly with a mechanical jiffy type of mixer. Mix 14 : 3 Component "A" to Component "B" by weight

Pot Life: 3 hrs. (+10°C) 2 hrs. (+20°C) 1/2hr. (+30°C)

Application Method: By Trowel, Roller and Conventional- or Airless Spray

Application: Note: The minimum substrate and air temperature shall be at +3°C. All relevant surfaces should be primed. Trowel body coat with the mixed mortar as evenly as possible to achieve a uniform thickness at 1.5 mm. Press the glass mat into the body coat, then saturate and roll with the mixed resin until the mat has lost white colour. Allow to cure. Apply two topcoats by spray or roller.

Cleaning: Solvent T-100

Shelf Life: The shelf life is 12 months when stored at +20°C. Primer, resin, topcoat components and hardener should be stored in cool and dry places.

	Primer/Saturant	Resin	Topcoat
Density:	1.2 kg/l (mixed)	2.1 kg/l (mixed with Filler)	1.4 kg/l (mixed)
Viscosity:	350 mPas	semi thixotropic	9,000 - 11,000 mPas
Solid Content:	100 %	100 %	100 %
Flash Point:	Primer and Resin HARDENER No. 4 Coroflake 200 Component A Coroflake 200 Component B	+ 95 °C + 109 °C + 98°C + 97°C	

E – Modulus: 4.000 - 6.000 Mpa (DIN EN ISO 178) flexural

Coefficient of Expansion: 27- 30 x 10⁻⁶/°C (ASTM D – 696)

Compressive Strength: 60 MPa (DIN EN ISO 604)

Elongation at break: 2 %

Tensile Strength: 65 Mpa (DIN EN ISO 527) Reinforcement Layer only

Adhesion: 1.5 N/mm² (EN ISO 4624) concrete failure

Hardness: 20 - 30 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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