

TECHNICAL BULLETIN

COROFLAKE 24

Product Description: *COROFLAKE 24* is a two component, inert flake filled, Bisphenol-A vinyl ester coating system. This coating system consists of one primer @ 50 µm nominal and two or three coats @ 500 - 700 µm WFT per coat to produce a total DFT of 1,000 µm or 1,500 µm nominal. The vinyl ester resin provides outstanding chemical resistance.

Recommended Uses: *COROFLAKE 24* is so versatile that its uses range from floor coatings to interior absorber linings to coating pipeline exteriors. Its primary use, however, has been in protecting against corrosive conditions encountered in metal processing oil production, chemical processing, and waste treatment facilities. Three coats are required for wet conditions at 70 °C.

Temperature Resistance: + 50 °C wet (2 coats) + 70 °C wet (3 coats) + 120 °C dry

Generic Type: Bisphenol A Vinyl Ester

Filler: Inert Flakes

Solvent: Styrene (reactive)

Design: The steel and concrete construction to be coated must be fabricated according to the EN 14879-1:2005. For concrete structures also refer to DIN 1045. Further information can be taken from our steel or concrete specifications.

Preparation: Concrete
Contaminants such as oil or grease must be removed prior to the application. The best preparation is abrasive blast to open holes covered with cement and to roughen the surface. The resulting surface should be at least as rough as 40 grit sand paper. Concrete should be thoroughly cured for at least 28 days. Use plastic sheet method (ASTM 4263) to ensure the moisture content is less than 4%. The cured concrete should have a minimum compressive strength of 25 N/mm² and a minimum surface strength of 1.5 N/mm².

Steel

Steel substrates, which have been previously used in service, require a chemical check for the presence of invisible traces of iron sulphate and or iron chloride. If the check is positive, the total surface area needs to be washed down thoroughly with de-ionised water. In each case, steel substrate shall be prepared by abrasive blasting to obtain a Sa 2" surface, as defined in DIN EN ISO 12 944 Part 4 and a minimum surface profile @ 60 µm "Medium (G)" as defined in DIN EN ISO 8503-2.

Build-up of the system:	Layer Thickness	Coverage
<i>COROFLAKE N</i> PRIMER for steel	1 x 40 – 60 µm	150 g/m ²
<i>COROFLAKE N</i> PRIMER for concrete	1 x 80 – 120 µm	300 g/m ²
<i>COROFLAKE 24</i>	2 x 500 – 700 µm	2,200 g/m ²

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