

# TECHNICAL BULLETIN

## COROFLAKE N PRIMER

- Product Description:** *COROFLAKE N PRIMER* is a specially formulated low viscosity, catalysed Bisphenol-A- vinyl ester resin which provides exceptional resistance to rust and undercutting, but also has the ability when applied to concrete, the surface is upgraded to give high adhesion strength to the system being used.
- Recommended Uses:** *COROFLAKE N PRIMER* can be used on steel or concrete for the following applications: Primer for polyester or vinyl ester floor toppings, linings and coatings. When applied to properly prepared steel or concrete surfaces, *COROFLAKE N PRIMER* forms an excellent bond and inhibits corrosion or contamination until floor toppings, linings or coating materials can be applied.
- Temperature Resistance:** depending on the lining system applied on top
- Generic Type:** Bisphenol-A Vinyl Ester
- Filler:** Non
- 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 covert 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 as 4%. The cured concrete should have a minimum compressive strength of 25 N/mm<sup>2</sup> and a minimum. surface strength of 1.5 N/mm<sup>2</sup>.
- Steel**  
Steel substrates, which were under service conditions already, 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 2½ surface, as defined in DIN EN ISO 12 944-4 and a minimum surface profile @ 60 µm "Coarse (G)" as defined in DIN EN ISO 8503-2.

<b>Coverage:</b>	<b>COROFLAKE N PRIMER</b> for steel	Liquid and HARDENER No. 1	150 g/m <sup>2</sup>
	<b>COROFLAKE N PRIMER</b> for concrete	Liquid and HARDENER No. 1	300 g/m <sup>2</sup>
<b>Mixing Ratio:</b>	100:2 <b>COROFLAKE N PRIMER</b> to HARDENER No. 1 by weight. Stir hardener into the primer, using a low speed mechanical agitator. Catalyse no more material than can be applied within the pot life period. Available working time, temperature and complexity of the area to be primed will determine how much material should be catalysed at one time.		
<b>Pot Life:</b>	1 hr. (+ 10 °C)	40 min. (+ 20 °C)	20 min. (+ 30 °C)
<b>Application Equipment:</b>	Conventional Air or Airless Spray, Brush and Roller		
<b>Application:</b>	<b>COROFLAKE N PRIMER</b> is normally applied by brush or roller. Spray application can be used, but requires extra clean surface. Primer may be relined after initial curing, which will occur normally after 8 hours depend on temperature. The primed surfaces must be top coated within 14 days (values given for + 20 °C).  <i>Note:</i> During application the primed surface must be shaded from direct or indirect sunlight.		
<b>Cleaning:</b>	Solvent T-100		
<b>Shelf Life:</b>	The shelf life is 6 months when stored at + 20 °C. <b>COROFLAKE N PRIMER</b> and HARDENER No. 1 should be stored at a cool and dry place.		
<b>Drying and Curing:</b>	12 hrs. (+ 10 °C)	8 hrs. (+ 20 °C)	4 hrs. (+ 30 °C)
<b>Density:</b>	1.00 kg/l (mixed)		
<b>Viscosity:</b>	350 mPas ± 50		
<b>Flash Point:</b>	<b>COROFLAKE N PRIMER:</b>	+ 32 °C	
	HARDENER Nr.1:	+ 70 °C	
<b>Adhesion:</b>	7.0 N/mm <sup>2</sup> (EN ISO 4624) to grit blasted C-Steel; 1.5 N/mm <sup>2</sup> (EN ISO 4624) to concrete		
<b>Hardness:</b>	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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