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TECHNICAL BULLETIN

COROFLAKE 650 FDA

Product Description: COROFLAKE 650 FDA is a two component coating system based on

epoxy resin. This coating system consists of at least two coats @ 150 - 200 μm WFT per coat to produce a total DFT of 300 μm nominal. The epoxy resin provides a good chemical resistance against the most commonly

chemicals used in the food and beverage industry.

Recommended Uses: COROFLAKE 650 FDA is a protective coating for metal and concrete in

those environments where moderate to severe corrosive conditions exist. It is used as a light duty lining in alkalies, water or mild chemical solutions at ambient temperatures. Due to the formulation according to the FDA guideline CFR 177.2420 and the German KTW Regulations **COROFLAKE 650 FDA** is a versatile coating for use in the food, drug and beverage

industry.

Temperature Resistance: + 50 °C wet + 110 °C dry

Generic Type: Epoxy Resin

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 cured concrete should have a minimum compressive strength of 25 N/mm, and a minimum. surface

strength of 1.5 N/mm.

<u>Steel</u>

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. In each case, steel substrate shall be prepared by abrasive blasting to obtain a Sa 2" surface, as defined in DIN EN ISO 12 944-4 and a minimum surface profile @ 60 µm "Coarse (G)" as defined in DIN EN ISO

8503-2.

Build-up of the system: Thickness Coverage

COROFLAKE 650 FDA 2 x 150 μm 2 x 400 g/m_c

Mixing Ratio: Mix 18.0 kg COROFLAKE 650 FDA Comp. "A" with 3.0 kg COROFLAKE

650 FDA Comp. "B" using a low speed mechanical agitator.

Pot Life: 24 hrs. (+ 10 °C) 10 hrs. (+ 20 °C) 6 hrs. (+ 30 °C)

Drying Time: 28 hrs. (+ 10 °C) 14 hrs. (+ 20 °C) 8 hrs. (+ 30 °C)

Recoating Time: 36 hrs. (+ 10 °C) 18 hrs. (+ 20 °C) 10 hrs. (+ 30 °C)

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Coat for Every Industry!

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Application Equipment: Conventional or Airless-Spray equipment, Brush and Roller.

Application: The air temperature shall be minimum + 13 °C to + 40 °C and the substrate

temperature shall be minimum + 10 $^{\circ}$ C (3 K above dew point). The topcoat should be applied no longer not later then two weeks later. The given values are applicable for + 20 $^{\circ}$ C. Refer to the application instruction for further

details.

Notes: With atmospheric exposure COROFLAKE 650 FDA has a tendency

to chalking with the time.

Cleaning: Solvent T-100

Shelf Life: The shelf life is 12 months when stored @ + 20 °C. The materials should be

stored at a cool and dry place.

Density: 1.25 kg/l (mixed)

Viscosity: 1000 mPas (mixed)

Flash Point: 18 °C (mixed)

Modulus of Elasticity: 3,000 – 3,500 MPa (DIN EN ISO 178) flexural

Coefficient of Expansion: 30 x 10⁻⁶ 1/°C (ASTM D 696-90) linear

Abrasion: 210 mg (ASTM – D 4060)

Permeation: 0.07 perm-inch (ASTM – E 96 - 90 Procedure E)

Adhesion: 7 N/mm, (EN ISO 4624) to grit blasted C-Steel, 1.5 N/mm, to concrete

Hardness: > 70 Shore D (DIN 53 505)

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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