Product Data Sheet

RCC CORROSION CONTROL

COROFLAKE 70 PRIMER
Low Viscosity Moisture Tolerant Epoxy Primer for Concrete

PRODUCT DESCRIPTION
COROFLAKE 70 PRIMER is a two-component, low viscosity, high solids Epoxy primer for concrete substrates. The primer exhibits a degree of surface moisture tolerance and improved resistance to hydrostatic pressure compared to standard epoxy primers. It will effectively seal and strengthen concrete surfaces to improve the adhesion with subsequent with subsequent coating, lining and flooring systems.

FIELDS OF APPLICATION
COROFLAKE 70 PRIMER is generally used as a primer on concrete when surface moisture and/or suspected hydrostatic pressure exists. It is applied to properly prepared concrete prior to application of epoxy and epoxy novolac floor toppings, linings, and coatings from RCC Corrosion Control.
COROFLAKE 70 PRIMER can also used as a concrete sealer for light-duty service.

FEATURES
- Easy to apply (roll, brush, spray)
- Penetrates and strengthens concrete surfaces
- Improved tolerance for surface moisture and hydrostatic pressure compared to standard epoxy primers
- Good tolerance to varying application conditions

CHEMICAL RESISTANCE
Information on the chemical resistance properties is available upon request.

SURFACE PRE-TREATMENT
Concrete

The concrete shall have a minimum compressive strength of 3500 psi (25 N/mm²) and a minimum surface strength of 200 psi (1.4 N/mm²) for coatings and 300 psi (2.1 N/mm²) for linings. The concrete must be thoroughly cured and dry at the time of application. The residual moisture content should not exceed 4%. ASTM D 4263 plastic sheet test method is recommended to ensure concrete is moisture free. If moisture is detected, repeat test until dry.

Abrasive blast or mechanically abrade surface to remove the weak laitance and surface contaminants. Refer to specification, RCC TT-3 for further details.

APPLICATION
- **COROFLAKE 70 PRIMER** is normally applied by brush or roller. Spray application using an airless or conventional air spray system can also be used.
- The primer is generally applied in one uniform coat at 2-5 mils (50-125 µm) WFT.
- Material consumption is greater when applied to concrete substrates due to penetration of the primer into the surface as well as variable surface uniformity. In some applications this can result in an equivalent 5-8 mils (125-200 µm) WFT per coat. Consult RCC for specific recommendations.

Note: During application the coated surface should be shaded from direct or indirect sunlight whenever possible.

MIX RATIO
Hardener No. 7 is added to the **COROFLAKE 70 PRIMER Resin**. The mixing ratio of resin to hardener is 2:1 by volume.

The **COROFLAKE 70 PRIMER** components are supplied in premeasured units so that weighing or measuring of the components is kept to a minimum.

CONSUMPTION

Layer	Thickness mils (µm)	Coverage
COROFLAKE 70 PRIMER for concrete:	2-5 (50-125) 5-8 (125-200)	160-200 ft²/gal 100-160 ft²/gal
COROFLAKE 70 PRIMER as a sealer:	5 (125)	140-160 ft²/gal

WORKING TIME & RECOAT TIME

Temperature	Working Time	Min Recoat	Max Recoat
50°F (10°C)	approx. 60 min	8 hrs	14 days
70°F (21°C)	approx. 40 min	4 hrs	14 days
90°F (32°C)	approx. 20 min	2 hrs	7 days

CURE TIME (to place in service)

Temperature	Minimum Cure time
50°F (10°C)	5 days
70°F (21°C)	3 days
90°F (32°C)	2 days

Generally, **COROFLAKE 70 PRIMER** can be placed in service after the following final cure time intervals. Shorter or longer intervals may apply depending on service conditions. Consult RCC Corrosion Control for specific recommendations.

CLEANING: Cleaning Agent T-100

SAFETY MEASURES

The material safety data sheets of the individual components as well as the legal requirements for handling hazardous materials must be observed.

PACKING UNITS

The products are supplied in the following standard package sizes:

Description	Package Size
COROFLAKE 70 PRIMER	3/4, 3, 15 gal kits

STORAGE

The materials must be stored in a cool and dry place. At storage temperature of 70°F (21°C) the shelf life is as follows:

COROFLAKE 70 PRIMER Resin 24 months
Hardener No. 7 24 months

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport temperatures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof.

Technical Data	Testing Standard	Unit	Value
Generic Type			Epoxy
Density	ASTM D1475	lbs/gal kg/l	9.13 ±0.25 1.09
Viscosity (Brookfield)	ASTM D2196	cps mPa·s	250 ± 50
Tensile Strength	ASTM D638	Psi MPa	3000 – 4000 21 – 28
Adhesion Strength - Concrete	ASTM D7234	psi N/mm²	Exceeds the strength of concrete
Volatile Organic Compounds	EPA Method 24	g/L (lbs/gal)	93 (0.78)
Maximum Operating Temperature		°F °C	Dependent on succeeding coating/lining system

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. This Product Data Sheet is considered accurate and reliable to the best of our knowledge at the date of its publication, but are used as guides only. The user assumes all risks and liabilities in connection therewith regardless of any suggestion, we may give. We assume no liability for performance of the product or for any loss or damage resulting from its use. Our liability, in law and equity, shall be expressly limited to the replacement of non-conforming goods at our factory, or at our sole discretion, to repayment of the purchase price of the non-conforming goods.