Product Data Sheet

RCC CORROSION CONTROL

COROFLAKE 611LSE EP
Low Surface Energy High Solids Epoxy Topcoat

PRODUCT DESCRIPTION
COROFLAKE 611LSE EP is a two-component, high solids Epoxy resin based topcoat/finish coat incorporating PTFE fillers. It provides a low surface energy finish with a degree of non-stick properties to reduce deposit build-up or caking of solids on its surface. **COROFLAKE 611LSE EP** resists a wide range of alkali solutions, dilute acids and petroleum products.

COATING LAYERS COMPOSITION
COROFLAKE 611LSE EP is applied at 8-10 mils (200-250 µm) WFT, target 9 mils (225 µm) WFT per coat over **COROFLAKE 611 EP** and other compatible epoxy lining and coating systems from RCC Corrosion Control.

FIELDS OF APPLICATION
COROFLAKE 611LSE EP is ideal for use in immersion lining service where the reduction of process build-up or slurry deposits is desired. The PTFE fillers contribute to the reduction of friction and drag on the surface resulting in ease of cleaning with reduced time and cost. Typical applications include lining in tanks, hoppers and silos.

FEATURES
- Low surface energy finish
- Reduces process deposit build-up on the surface
- Easily cleaned to reduce maintenance cost
- Good broad based chemical resistance
- Convenient component mix ratio (1:1 by volume)
- Easy to apply

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

SURFACE PRE-TREATMENT
Prior to the application of the **COROFLAKE 611LSE EP** the base lining or coating system shall have been completed and quality control tested. The surface to receive **COROFLAKE 611LSE EP** must be dry, clean and have not set longer than the recommended recoat interval for the last applied layer of the base lining/coating. The surface can be tested for sensitivity to confirm it is suitable for recoating. Rub a small area of the base lining/coating surface with a clean rag or finger dampened with toluene. If the surface becomes tacky it is deemed sensitive and suitable for recoating. If the surface does not become tacky it must be uniformly prepared for recoating by mechanical abrading or abrasive blasting prior to application of **COROFLAKE 611LSE EP**.

APPLICATION
- Refer to the individual product data sheets for the application of the primer and base lining or coating system being used.
- **COROFLAKE 611LSE EP** is applied by airless or conventional spray, by brush or roller.
- Application of **COROFLAKE 611LSE EP** should be 8-10 mils (200-250 µm) WFT per coat to achieve 6-8 mils (150-200 µm) DFT.
- Application by roller or brush may require additional coats to achieve the total recommended thickness.

Note: During application the surface should be shaded from direct or indirect sunlight whenever possible. In atmospheric exposure **COROFLAKE 611LSE EP** has a tendency to chalking with time. Attention should be paid especially in case of light colored coatings.

MIX RATIO
The resin to hardener mix ratio of **COROFLAKE 67PS PRIMER** to **Hardener No. 7** is 2:1 by volume. The mix ratio of **COROFLAKE 611 EP Resin** to **COROFLAKE 611LSE EP Hardener** is 1:1 by volume.

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

CONSUMPTION

Layer	Thickness mils (µm) WFT	Coverage
COROFLAKE 611LSE EP	8-10 (200-250)	140-180 ft^2/gal

WORKING TIME & RECOAT TIME

Temperature	Working Time	Min Recoat	Max Recoat
50°F (10°C)	approx. 120 min	16 hrs	24 hrs*
70°F (21°C)	approx. 60 min	8 hrs	24 hrs*
90°F (32°C)	approx. 30 min	4 hrs	24 hrs*

* Max interval when applying **COROFLAKE 611LSE EP** over itself

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 611LSE EP** can be placed in service after the final cure time intervals have been achieved. 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 611LSE EP Topcoat	1, 5 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 611 EP Resin 24 months
COROFLAKE 611LSE EP Hardener 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
Density	ASTM D1475	lbs/gal kg/l	10.04±0.25 1.20
Viscosity - mixed	ASTM D2196	Cps (mPa·s)	1,500-2,500
Modulus of Elasticity (Bend Test)	ASTM D790	psi MPa	435K – 500K 3,000 – 3,500
Tensile Strength	ASTM D638	Psi MPa	4350 30
Linear Coefficient of Thermal Expansion	ASTM C531	in/in°F cm/cm°C	17×10^{-6} 30×10^{-6}
Volatile Organic Compounds	EPA Method 24	g/L (lbs/gal)	231 (1.93)
Maximum Operating Temperature* Immersion Splash/Spill Concrete Continuous Dry		 °F °C °F °C °F °C	 120 49 160 71 220 104

***Maximum operating temperature limits may vary depending on actual service conditions**

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.