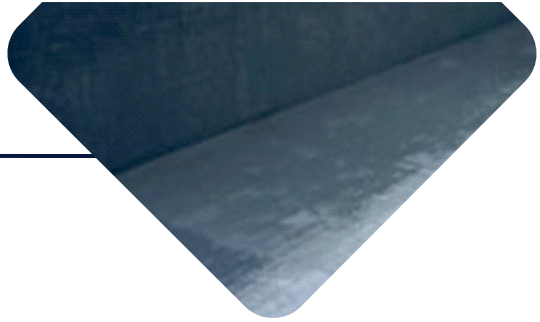
DURA-COAT



DURA-COAT
KRETE CHEMICAL 870

DESCRIPTION AND RECOMMENDED USES

100% solids, Dura-Coat Krete Chemical 870 is a solvent free, high functionality Novolac Epoxy coating ambient-temperature curing. It is designed particularly as protection coating for concrete highly aggressive chemical immersion and spills service Dura-Coat Krete Chemical 870 is convenient-to-use, non-sagging with excellent high mechanical strength.

- It can be applied up to 40 mils without slump
- Ideally suited for concrete protection for corrosion
- Suitable for and abrasion protection
- Suitable for immersion and non-immersion service

PACKAGES

	SIZE	REORDER #
OPTIONS	1kg	870-1
	2kg	870-2
OPTIONS	7.5kg	870-7.5
	15kg	870-15

FDA COMPLIANCE

This product complies with FDA regulations, for direct food contact specifically FDA 21 CFR 175.300 and FDA 21 CFR 175.105.

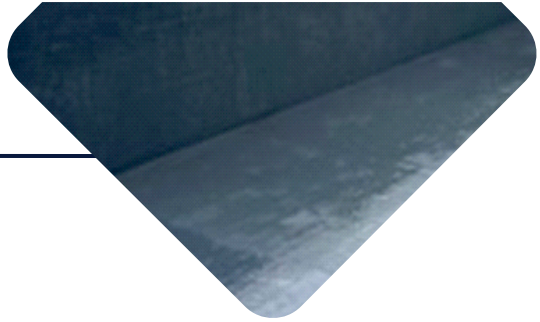
APPLICATION AREAS

- Secondary containment
- Chemical tanks
- Concrete walls
- Sumps
- Pump base
- Concrete channels
- Drains
- Chemical processing floors
- Pits
- Neutralization tanks
- Equipment bases

TECHNICAL DATA

Maximum Temperature (dependent on service)	Wet Service Dry Service	65°C 85°C	149°F 185°F
Chemical Resistance	Water Alkalis Inorganic Acids Organic Acids Organic Solvents	Excellent Excellent Excellent Excellent Excellent	
Solids by Volume		100%	
Mixed Density		1.4	
Shore D Durometer Hardness	(ASTM D 2240)	84	
Pot Life		35 min / kg at 72°F	
Vertical SAG Resistance at 21°C (70°F) and 1 mm (40mils)		No sag	
Coverage for 7.5kg Kit	57sf @40mils	5.32m² @1mm	
Mix Ratio	2:1 by weight		Base: Activator
Color	Gray as standard. Blue and red optional. Other colors contact the manufacture		
Shelf Life (unopened containers)	3 years at 55-95°F (13-35°C)		

DURA-COAT®



DURA-COAT
KRETE CHEMICAL 870

SURFACE PREPARATION

Proper surface preparation is critically important for the long-term performance of the Dura-Coat Krete-Chemical 870. The prepared concrete surface must be structurally sound, free from all contaminants and roughened to an >ICRI CSP 3 profile (similar to #60 grit sandpaper). If using with Dura-Coat Krete-Seal 800, surface may be damp, but not wet i.e. no free-standing water. Dura-Coat Krete-Chemical 870 can be applied on damp concrete without using Dura-Coat Krete-Seal 800. A vapor barrier (Dura-Coat Krete-Seal 800) is required for slab on grade application. If no vapor barrier is present, check for vapor transmission.

SURFACE CLEANING & PROFILING METHODS

- Hydroblasting
- Steel shot-blasting
- Scarifying
- Dry abrasive blasting

CURED TIME

	16°C (60°F)	25°C (77°F)	32°C (90°F)
TACK FREE	4 hours	2 hours	1 hour
LIGHT LOAD	12 hours	6 hours	3 hours
OVERCOAT END	16 hours	10 hours	5 hours
FULL LOAD	24 hours	12 hours	6 hours
FULL CHEMICAL	48 hours	24 hours	12 hours

MIXING

Thoroughly mix Activator into Base with mixing stick or drill with low speed mixing blade scraping sides and bottom of container or mixing board. Mix by Weight 2-part Base to 1-part Activator. Mix thoroughly to produce an even colored and streak-free material. THINNING: Never thin.

APPLICATION

Application temperature range 10°C (50°F)-32°C (90°F) (substrate).
Dura-Coat Krete-Chemical 870 may be applied by notched squeegee, spray system, brush, or roller.
Brush: medium to stiff bristle of sufficient quality that bristles do not pull out and stick in coating (epoxy glued bristles are best). Trim or tape to <1" nap.
Roller: use good quality 1/8" nap.
For maximum protection against immersion or spills, a 2-coat system is recommended.
To avoid sagging on vertical surfaces the maximum wet film thickness should be between 500 µm-1000 µm (20-40 mil) per coat.

CLEAN UP

Tools must be immediately cleaned after usage by using industrial alkaline detergent.

SAFETY

Before using any products, review the appropriate Safety Data Sheet (SDS) or Safety Sheet for your area. Follow standard confined space entry and work procedures, if appropriate.

3/26

+1 (561) 757-5620 | dura-coat@dura-coat.net | www.dura-coat.net | 12481 NW 44th Street, Coral Springs, Florida, 33065, USA

ISO 14001 CERTIFIED | ISO 9001 CERTIFIED | ISO 45001 CERTIFIED