

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 that cures at ambient temperature. It is designed particularly as protection coating for concrete highly aggressive chemical immersion and spill 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 abrasion protection
- Suitable for immersion and non-immersion service

FDA COMPLIANCE

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

PACKAGES

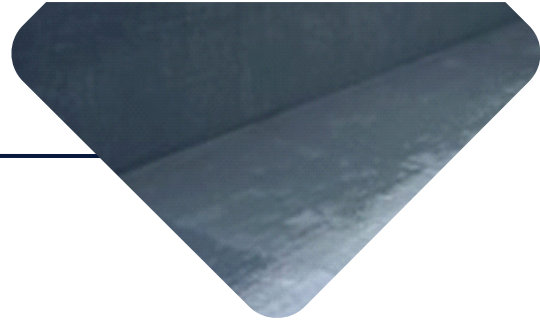
	SIZE	REORDER #
OPTIONS	1kg	870-1
	2kg	870-2
	7.5kg	870-7.5
	15kg	870-15

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	65°C	149°F
	Dry Service	85°C	185°F
Chemical Resistance	Water	Excellent	
	Alkalis	Excellent	
	Inorganic Acids	Excellent	
	Organic Acids	Excellent	
	Organic Solvents	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	5.32m ² @1mm	
Mix Ratio	2:1 by weight		Base: Activator
Color	Gray as standard. Blue and red optional. Other colors contact the manufacturer		
Shelf Life (unopened containers)	3 years at 55-95°F (13-35°C)		



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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.

Manufacturer, Dura-Coat Industrial Inc., makes no warranty either expressed or implied including warranties of merchantability or fitness for a particular purpose for this product. Under no circumstances will the manufacturer be liable for incidental, consequential, or other damages, breach of warranty, strict liability, or any other theory arising out of use of this product. The information and/or recommendations contained herein are based on standard Product and are proprietary and furnished solely for the use of our customers. This information is provided in good faith and believed to be true and accurate as of the date/version of this document. As the manufacturer has no control over the use conditions or application process of the parties using this product, the manufacturer cannot accept responsibility for loss, injury or other damages resulting from the use of the Product or this or any other information provided by the manufacturer. Therefore, no guarantees of any kind, expressed or implied, are made by the manufacturer, Dura-Coat Industrial Inc., regarding this, or any, product manufactured by them or any contracted or licensed manufacturer. DURA-COAT® epoxy products do not provide structural integrity or improvement. They are only used to provide protection from corrosion, wear, abrasion and chemical attack on a given substrate and only to the extent provided for in the Data Sheets, Technical Data Sheets, Safety Data Sheets, and any other information as supplied in writing directly from manufacturers technical support.

