



# DURA-COAT STRONG KRETE 830

## DESCRIPTION AND RECOMMENDED USES

100% solids, Dura-Coat Strong-Krete 830 is a three component ambient-temperature curing epoxy coating with quartz(SiO<sub>2</sub>) reinforcement aggregate. It is designed particularly for rebuilding and protecting concrete from chemicals and heavy traffic service. Dura-Coat Strong-Krete 830 is convenient-to-use, non-sagging with excellent high chemical resistance and high mechanical strength.

- It can be easily applied by trowel 240 mils without slump
- Ideally suited for concrete protection for corrosion
- Suitable for abrasion protection
- Suitable for immersion and non-immersion service

## PACKAGES

	SIZE	REORDER #
KIT INCLUDES	60Kg	830-60
	10Kg Resin	
	50kg Quartz	
	2kg Krete-Seal Primer	

## APPLICATION AREAS

- Secondary containment
- Industrial floor
- Concrete walls
- Sumps
- Pump base
- Concrete channels
- Drains
- Chemical processing floor
- Pits
- Heavy traffic floor
- Equipment bases

## TECHNICAL DATA

Maximum Temperature (dependent on service)	Wet Service	50°C	122°F
	Dry Service	60°C	140°F
Chemical Resistance	Water	Excellent	
	Alkalis	Excellent	
	Inorganic Acids	Good	
	Organic Acids	Good	
	Organic Solvents	Good	
Solids by Volume		100%	
Thermal compatibility with concrete	(ASTM C 884)	Pass	
Pot Life		55 min / kg at 72°F	
Vertical SAG Resistance at 21°C (70°F) and 6mm (240mils)		Non-sag (with Krete-Seal 800 as primer)	
Coverage for 60kg kit	81sf@240mils per kit	7.5m <sup>2</sup> @6mm per kit	
Mix Ratio Liquid	2:1 by weight	Base: Activator	
Mix Ratio Mortar	1:5 by weight	Resin mix: Quartz sand	
Color	Gray as standard and red optional		
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 Strong-Krete 830. 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. A vapor barrier (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
- Scarifying
- Steel shot-blasting
- Dry abrasive blasting

## CURED TIME

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

## MIXING

To facilitate ease of mixing and application, all material temperatures should be between 21°-32°C (70°-90°F) prior to mixing. Dura-Coat Strong-Krete 830 should be applied shortly after application of Dura-Coat Krete-Seal 800 primer. The primer must still be tacky prior to applying Dura-Coat Strong-Krete 830; otherwise, the area must be re-primed. This is optimally within 2 hours of application, depending on ambient conditions. Premix the Base to disperse pigments. Thoroughly mix Base and Activator in a suitable pail, using a slow speed mixer. Next, transfer the blended resins to an epoxy mortar mixer containing one bag of Quartz and gradually add in remaining bags. Total mixing time should be a minimum of 3 minutes or until uniformly blended.

## APPLICATION

The mixed Dura-Coat Strong-Krete 830 may be distributed on the floor surface using screed guides and rigid bar, or screed box, not exceeding 1.2 m (3.93 ft) wide.

Apply a minimum of 6 mm (240 mil) and finish the surface using steel trowels.

**IMPORTANT:** During application, press Dura-Coat Strong-Krete 830 firmly on to the substrate to promote contact with the primer and to ensure thorough compaction. Trowel-finish the surface to a smooth closed surface texture.

## 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.

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