DURA-COAT

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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(SiO2) reinforcement agregate. It is designed particularly as rebuild and protection for 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 #
OPTION	60Kg	830-60
KIT INGLYE	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	7.5m²@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)
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

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 reprised. 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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