



DURA-COAT

CHEMICAL MORTAR 840

DESCRIPTION AND RECOMMENDED USES

100% solids, Dura-Coat Chemical Mortar 840 is a high-functionality, three-component Novolac epoxy system that cures at ambient temperature and is reinforced with quartz aggregate (SiO₂). It is specifically designed to rebuild and protect concrete against aggressive chemicals and heavy traffic. Dura-Coat Chemical Mortar 840 is easy to use, non-sag, and offers excellent chemical resistance and high mechanical strength.

- It can be easily applied with a trowel in thicknesses up to 240 mils without sagging
- Ideal for protecting concrete against corrosion
- Suitable for abrasion protection
- Recommended for immersion and non-immersion service

PACKAGES

KIT INCLUDE	SIZE	REORDER #
	54Kg	840-54
	9Kg Resin	
	45kg Quartz	
	2kg Krete-Seal Primer	

APPLICATION AREAS

- Secondary containment
- Industrial flooring
- Concrete walls
- Containment pit or sump
- Pump base
- Concrete channels
- Drains
- Chemical processing floors
- Pits
- High-traffic floors
- 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%	
Thermal compatibility with concrete	(ASTM C 884)	Pass	
Pot Life		45 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 54kg kit	108sf@240mils per kit	10m ² @6mm per kit	
Mix Ratio Liquid	3:1 by weight	Base: Activator	
Mix Ratio Mortar	1:5 by weight	Resin Mix: Quartz	
Color	Red as standard and gray as 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 to the long-term performance of Dura-Coat Chemical Mortar 840. The prepared concrete surface must be structurally sound, free of contaminants, and textured to a profile of > ICRI CSP 3 (similar to #60-grit sandpaper). If used with Dura-Coat Krete-Seal 800, the surface may be damp but not wet—i.e., with no standing/free water. A vapor barrier (Krete-Seal 800) is required for applications on slabs-on-grade. If no vapor barrier is present, verify vapor transmission.

SURFACE CLEANING AND PROFILING METHODS

- Pressure washing
- Scarification
- 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 mixing and application, all material temperatures should be between 21°–32°C (70°–90°F) prior to mixing. Apply Dura-Coat Chemical Mortar 840 immediately after applying the Dura-Coat Krete-Seal 800 primer. The primer must still be tacky before applying Dura-Coat Chemical Mortar 840; otherwise, the area must be re-primed. Ideally, apply within 2 hours of priming, depending on ambient conditions. Pre-mix the Base to disperse pigments. Thoroughly mix the Base and Activator in a suitable pail using a low-speed mixer. Then transfer the mixed resins into an epoxy mortar mixer containing one bag of quartz, and gradually add the remaining bags. Total mixing time must be at least 3 minutes, or until the mixture is completely uniform.

APPLICATION

Mixed Dura-Coat Chemical Mortar 840 can be spread over the floor surface using screed guides and a rigid straightedge, or a screed box, without exceeding 1.2 m (3.93 ft) in width. Apply a minimum thickness of 6 mm (240 mils) and finish the surface using steel trowels. **IMPORTANT:** During application, press Dura-Coat Chemical Mortar 840 firmly into the substrate to promote contact with the primer and ensure full compaction. Trowel-finish the surface to achieve a smooth, dense (closed) 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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