

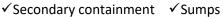
Dura-Coat Krete-Chemical 870

Technical Data Sheet

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.

Application Areas:



✓ Pump base

✓ Drains

✓ Pits

✓ Chemical tanks✓ Concrete walls

✓ Pump base✓ Concrete channels

✓ Chemical

✓ Neutralization tanks

processing floors ✓ Equipment bases

TECHNICAL DATA

Wet Service	65°C	149°F
Intermittent Service	85°C	185°F
Water	Excellent	
Alkalis	Excellent	
Inorganic Acids	Excellent	
Organic Acids	Excellent	
Organic Solvents	Excellent	
(ASTM D 790)	620 kg/cm2 (60.7 MPa)	8,800 psi
(ASTM D 4541)	330 kg/cm2 (32.4 MPa)	4,700 psi
(ASTM D 638)	211 kg/cm2 (20.7 MPa)	3,000 psi
(ASTM D 790)	6.9 x 10^4 kg/cm2	9.9 x 10^5 psi
(ASTM D 2240)	80	
(ASTM D 4060)	35mg	
	35 MIN / KG at 72ºF	
	No sag	
76sf @40mils	7.1m2 @1mm	
1:1 by Weight		Base: Activator
Grey as standard. Blue and Red optional. Other colors contact the manufacture		
3 Years at 55-95ºF (13-35ºC)		
	Intermittent Service Water Alkalis Inorganic Acids Organic Acids Organic Solvents (ASTM D 790) (ASTM D 4541) (ASTM D 638) (ASTM D 790) (ASTM D 2240) (ASTM D 4060) 76sf @40mils 1:1 by Weight Grey as standard. Blue	Intermittent Service 85°C Water Excellent Alkalis Excellent Inorganic Acids Excellent Organic Acids Excellent Organic Solvents Excellent (ASTM D 790) 620 kg/cm2 (60.7 MPa) (ASTM D 4541) 330 kg/cm2 (32.4 MPa) (ASTM D 638) 211 kg/cm2 (20.7 MPa) (ASTM D 790) 6.9 x 10^4 kg/cm2 (ASTM D 2240) 80 (ASTM D 4060) 35mg 35 MIN / KG at 72°F No sag 76sf @40mils 7.1m2 @1mm 1:1 by Weight Grey as standard. Blue and Red optional. Other colors contact





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 (Krete-Seal 800) is required for slab on grade application. If no vapor barrier is present, check for vapor transmission.

Surface Cleaning & Profiling Methods

Hydro-Blasting Scarifying

Steel Shot-Blasting Dry Abrasive Blasting

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 1-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

Curing Schedule

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	16°C (60°F)	25°C (77°F)	32°C (90°F)
Tack Free	4 hrs.	2 hrs.	1 hr.
Light Load	12 hrs.	6 hrs.	3 hrs.
Overcoat End	16 hrs.	10 hrs.	5 hrs.
Full Load	24 hrs.	12 hrs.	6 hrs.
Full Chemical	48 hrs.	24 hrs.	12 hrs.

Clean Un

Use commercial solvents (Acetone, Xylene, Alcohol, Methyl Ethyl Ketone) to clean tools immediately after use. Once cured, the material would have to be abraded off.

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.

