

DE-500 CR

CHEMICAL RESISTANT FLOORING SYSTEM

DESCRIPTION:

Danlaid DE-500 CR Chemical Resistant Flooring System is a solvent free, high performance, epoxy novolac resin suitable for epoxy resin flooring compositions that require increased chemical and heat resistance. Such applications are food processing areas where concrete surfaces require protection against hot fats. Danlaid DE-500 CR is also resistant to a wide variety of solvents, alkalis and acid solutions.

CHEMICAL RESISTANCE GUIDE:

Chemical	30 Days	6 Months	12 Months
10% Nitric	Green	Yellow	Red
10% Phosphoric	Green	Yellow	Red
10% Sulphuric	Green	Yellow	Red
60% Sulphuric	Green	Yellow	Red
32% Hydrochloric	Green	Yellow	Red
5% Hydrochloric	Green	Yellow	Red
5% Acetic	Green	Yellow	Red
5% Lactic	Green	Yellow	Red
50% Caustic	Green	Yellow	Red
Xylene	Green	Yellow	Red
Kerosene	Green	Yellow	Red
MIBK	Green	Yellow	Red

Green 100 - 95 % Yellow 95 - 90 % Red 90 - 85%
< 85% original hardness. Continuous immersion 20 oc

APPLICATION TO NEW CONCRETE:

For best results new concrete should be specified to have a minimum compressive strength of 21 MPa. A minimum curing time of 28 days is required unless a special approved primer is used. The use of surface curing agents is not recommended. The surface must be free of cement laitance. Mechanical grinding or shot blasting is recommended.

APPLICATION PRECAUTIONS:

Epoxy novolac's such as Danlaid DE-500 CR exhibit poor intercoat adhesion. Concrete surfaces should be primed with Danlaid DE-500.

The system should not be applied to surfaces subject to rising damp or have moisture content higher than 4%. The surface must be free from oils, chemicals and any other material that may affect the adhesion such as concrete curing membranes. High atmospheric humidity or drops in 4 °c temperature around dew point may result in condensation on the uncured film causing changes in the film surface. This is commonly known as whitening or blooming. This effect may cause loss of intercoat adhesion. In these conditions good adhesion may be obtained by re-roughening the surface.

TECHNICAL DATA

Performance Properties 20 °c (unfilled)		
Mix Ratio Resin to Hardener by Volume		2 Parts Resin to 1 part Hardener
Pot Life		30 minutes
Cure Time Foot Traffic		12 hrs
Cure Time Full Service		5 days
Flexural Properties ASTM D790-90 Modulus		2750 MPa
	Strength	75 MPa
Compression to ASTM D695-91 Modulus		1020 MPa
	Strength	90 MPa
UV Resistance		Will yellow and chalk on exposure
Bond Strength to Concrete		3 MPa
Application Temperature (substrate and air)		10 °c to 35 °c

IMPORTANT NOTE:

The specification listed above is given to the best of our knowledge, however, it is given without any warranty expressed or implied. The specification is subject to change without notice. Consult QUALITY CONTROL REPORT available for each Batch for actual results. Consult MATERIAL SAFETY DATA SHEET for handling of material.

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