

DE-500

EPOXY FLOORING SYSTEM

DESCRIPTION:

Danlaid DE-500 Resin is low viscosity, solvent free epoxy resin suitable for epoxy resin flooring compositions. When used in conjunction with Danlaid DE-500 hardeners, it covers a wide range of applications and conditions for industrial flooring.

Danlaid DE 500 Standard Hardener	2 : 1 v/v	High strength, high build, sand filled trowel flooring. Hard wearing, slip and chemical resistance.
Danlaid DE 500 Fast Hardener	2 : 1 v/v	For fast curing, fast turn around time under adverse conditions

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 and any roughly screeded or floated areas. A surface which has been lightly boomed after compacting and screeding will assist in mechanical bonding.

APPLICATION PRECAUTIONS:

Danlaid DE-500 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. Danlaid DE-500 is not chemically resistant to food acids or hot chicken fat in processing areas. 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)	Danlaid 500 Standard Hardener	Danlaid 500 Fast Hardener
Pot Life 100 grams	20 – 40 mins	15 mins
Mixed Viscosity Cps	750	500
Cure Time Foot Traffic	9.0 hrs	2.5 hrs
Cure Time Full Service	5 days	4 days
Flexural Properties ASTM D790-90 Modulus	2750 MPa	1750 MPa
Strength	75 MPa	55 MPa
Compression to ASTM D695-91 Modulus	1020 MPa	740 MPa
Strength	90 MPa	70 MPa
Tensile Properties Strength	14 MPa	13 MPa
Water Absorption ASTM-D-570 (24. Hr. immersion)	0.12%	0.10%
Bond Strength to Concrete	3 MPa	3 MPa
Application Temperature (substrate and air)	10 °c to 35 °c	10 °c to 30 °c

Date of printing: April 13, 2005 supersedes all previous issues.

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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