

TECHNICAL DATA



Epoxy Coating

DESCRIPTION AND USES

DUROPLAST 115 is a 99 % solids, two component epoxy system especially formulated as a protective coating for concrete block walls.

DUROPLAST 115 is also recommended as a topcoat on new or existing epoxy coatings and on most hard sound surfaces. DUROPLAST 115 cures with an "orange peel" textured finish.

CHARACTERISTICS

- Non sagging up to 200 microns (8 mils)
- Maintains color consistency when backrolled
- Resistant to a wide range of chemicals
- Seamless and waterproof
- Odor free
- **Economical**

APPLICATION INSTRUCTIONS

Surface Preparation

Surface must be dry, sound and free from oil, grease, wax, paint, curing compound or any other contaminant.

Concrete: Mechanical cleaning or acid etch, depending on conditions.

Metal: Sandblast.

Wood: Clean and sound.

Existing epoxy: Mechanical grinding and DUOCHEM 205 to reactivate.

In case of doubt, consult DUOCHEM.

Application

Blend parts A and B separately as some settling may occur. Combine 1 part B to 3 parts A by volume and mix mechanically. Use a 10-12 mm (1/2") roller to apply.

Do not mix more material than can be applied within 30 – 45 minutes maximum.

"Orange peel" finish can be minimized on smoother surfaces by adding 2% (20 ml/l - 2.5 oz/US gallon) Duochem 201 or 235 solvent to the mixed product: May increase saging and extend pot life and recoat time.

DUROPLAST 115

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Do not apply material at temperatures below 13°C (55°F).
- Not recommended for floors

TECHNICAL INFORMATION

Color:	On request
Mixing ratio:	3 parts A to 1 part B (hardener) per volume
V.O.C.:	11 g/l (0.09 lbs/US gal)
Induction time:	None
Pot life:	45 minutes
Suggested primer:	Self-priming on concrete Concrete blocks DUOCHEM VA or EE Gypsum wall board DUOCHEM 265
Application method:	Roller, brush
Number of coats:	2
Recommended thickness:	150 –200 microns dry per coat (6 – 8 mils dry)
Coverage:	4.9 – 6.6 m ² /l (200 – 265 ft ² /US gallon)
Recoat time:	16 – 48 hours
Solvent:	See "Application Instructions" for orange peel
Cleaning solvent:	DUOCHEM 201
Shelf life:	1 year in original unopened container
Packaging:	3.78 and 18.9 litres (1 and 5 US gallons)

(over)

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PHYSICAL PROPERTIES

As coating, cured 7 days at 25°C (except if otherwise specified)

PROPERTIES

TEST METHODS

RESULTS

<u>PROPERTIES</u>	<u>TEST METHODS</u>	<u>RESULTS</u>	
Tensile strength	ASTM D-638 Type IV	16.3 MPa (2,360 psi)	18.0 MPa @ 56 days (2,610 psi)
Elongation at break	ASTM D-638 Type IV	10%	2.9% @ 56 days
Compressive strength	ASTM D-695	37.6 MPa (5,450 psi)	
Water absorption	ASTM D-570 24 hours	0.22 %	
	7 days	0.56 %	
	2 hours, boiling water	0.08 %	
Bond strength to concrete	ASTM D-4541	4.2 MPa (615 psi) (substrate failure)	
Abrasion resistance	ASTM D-4060 Taber Abraser CS-17 Wheels 1000 g/wheel 1000 revolutions	140 mg loss	
Impact resistance	ASTM D-3029 Gardner Microscopic cracks Visible cracks	1.8 J (16 lbs•in)	
		4.3 J (38 lbs•in)	
Hardness	ASTM D-2240 Shore D	83	
Water vapour transmission	ASTM E-96 Water method 200 microns thick (8 mils)	0.26 g/h•m ²	
Water permeance	ASTM E-96 Water method 200 microns thick (8 mils)	0.37 perms	
Thermal compatibility with concrete	ASTM C-884	Passes 10 cycles from -23 °C at + 23°C	

This information is based on tests we believe to be reliable. Since conditions of use are beyond our control, we do not assume any liability except the replacement of an equal quantity of any product which is proven defective and for which we are responsible.

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