

TECHNICAL DATA



Epoxy Coating High Solids Content

DUROPLAST 120

DESCRIPTION AND USES

DUROPLAST 120 is a two component 95 % solids and/or reactive epoxy coating specially formulated to dry in a hard ceramic like finish that does not embrittle thus providing increased resistance to cracking when submitted to mechanical stress and/or impacts.

CHARACTERISTICS

- Resistant to a wide range of chemicals
- Seamless, waterproof and easy to maintain
- Low V.O.C. content
- Good resistance to U.V. in its category

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 4 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.

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:	4 parts A to 1 part B (hardener) per volume
Solids contents:	Per volume: 95% Per weight: 98%
V.O.C.:	40 g/l (0.33 lbs/US gal)
Induction time:	None
Pot life:	45 minutes
Suggested primer:	
- Concrete/ concrete blocks:	DUOCHEM VA or EE
- Gypsum wall board:	DUOCHEM 265
- Metal:	COR-PRO 470
Application method:	Roller, brush
Number of coats:	2
Recommended	150 – 200 microns dry thickness per coat: (6 – 8 mils dry)
Coverage:	4.6 – 6.2 m ² /l (190 – 255 ft ² /US gallon)
Recoat time:	6 – 24 hours
Solvent:	DUOCHEM 235 – 5% max. (50 ml/l. – 6.403 US gal.) May reduce sag resistance
Cleaning solvent:	DUOCHEM 201 or 235
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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DUOCHEM

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PHYSICAL PROPERTIES

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

PROPERTIES

TEST METHODS

RESULTS

Tensile strength	ASTM D-638 Type IV	11.5 MPa (1,670 psi)
Elongation at break	ASTM D-638 Type IV	13.1%
Compressive strength	ASTM D-695	134 MPa * (19,430 psi)
Modulus of elasticity in compression	ASTM D-695	630 MPa * (91,350 psi)
Water absorption	ASTM D-570 24 hours	0.17 %
	7 days	0.52 %
	2 hours, boiling water	0.22 %
Bond strength to concrete	ASTM D-4541	3.95 MPa (570 psi) (substrate failure)
Abrasion resistance	ASTM D-4060 Taber Abraser CS-17 Wheels 1000 g/wheel 1000 revolutions	182 mg loss
Impact resistance	ASTM D-3029 Gardner Microscopic cracks Visible cracks	3.25 J (28.7 lbs•in)
		5.65 J (50 lbs•in)
Hardness	ASTM D-2240 Shore D	75
Water vapour transmission	ASTM E-96 Water method 400 microns thick (16 mils)	0.25 g/h•m ²
Water permeance	ASTM E-96 Water method 400 microns thick (16 mils)	0.82 perms
Thermal compatibility with concrete	ASTM C-884	Passes 8 cycles from -18°C to + 23°C

* Samples are ductile and deform up to 56% before breaking.

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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PF-215