

TECHNICAL DATA



Epoxy Floor Coating

DESCRIPTION AND USES

DUROPLAST 100 TX and HT are textured finish two-component, 92% solids epoxy floor coatings. Applied with a sponged roller or curled plastic roller, they harden in an "orange peel" finish with standard (TX) or aggressive (HT) profile.

For interior use in areas subject to highly abrasive conditions or for intensive traffic. Also ideal in areas subject to high humidity.

CHARACTERISTICS

- Seamless and easy to clean
- Abrasion and chemical resistant
- Federal Department of Agriculture approved
- Available in standard (TX) or aggressive (HT) "orange peel" texture finish. A silica sand sand can be added to produce a stronger anti-slip finish.

APPLICATION INSTRUCTIONS

Surface Preparation

Surface must be dry, free of oil, grease, wax and any other contaminant.

In case of doubt or for additional information, contact DUOCHEM.

Application

Recommended primer

Concrete: Reduced solvent DUROPLAST 100

Metal: Cor-Pro 470

Mix part A and part B separately. Thoroughly mix 4 parts A to 1 part B per volume and proceed immediately with the application.

Do not mix a large quantity of material since the pot life will be shortened accordingly.

DUROPLAST 100 TX DUROPLAST 100 HT

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Do not apply material at temperatures lower than 13°C (55°F).

TECHNICAL INFORMATION

Color:	DUOCHEM standard colors	
Solids content:	Per volume	92 %
	Per weight	96 %
V.O.C:	55-60 g/l (0.5 lbs/US gallon)	
Mixing ratio:	4 parts A to 1 part B (hardener) per volume	
Pot life:	45 minutes - 0.5 kg mass (1.1 lbs mass)	
Application method:	Brush, roller, sponge roller	
Number of coats:	2	
Recommended thickness:	Primer	125 microns dry (5 mils)
	Top coat	375 microns dry (15 mils)
Coverage:	3.2 m ² /l per coat (130 ft ² /US gallon)	
	Primer	7.1 m ² /l (290 ft ² /US gallon)
	Top coat	2.4 m ² /l (95 ft ² /US gallon)
Recoat time:	6 – 24 hours	
Curing time:	Tack free	6 hours
	Full cure	7 days
Thinning Solvent:	DUOCHEM 235 – 5% max. (50 ml/l – 6.4 oz/US gallon) Will reduce orange peel	
Shelf life:	1 year in original unopened container	
Packaging:	3.78 and 18.9 litres (and 5 US gallons)	

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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.

PHYSICAL PROPERTIES

<u>PROPERTIES</u>	<u>TEST METHODS</u>	<u>RESULTS</u>
Water vapour transmission	ASTM E-96 Procedure A	0.10 perms
Impact resistance	ASTM D-3029 On concrete, 375 microns (15 mils)	1.31 J (11.6 lbs•in)
Abrasion resistance	ASTM D-4060 CS-17 wheels 1000 g / wheel 1000 revolutions	97 mg loss
Light resistance 100 hours	CGSB 1-GP-71 (120.1) or ASTM E-188	Colored coating: Unaffected White coating: Yellowing
Tensile strength	ASTM D-638 Type IV 225 microns thick (9 mils)	25.6 MPa (3,712 psi)
Elongation at break	ASTM D-638 Type IV 225 microns thick (9 mils)	2.8%
Adhesion	ASTM D-4541 On concrete	> 2.3 MPa (> 333 psi)
Hardness	Barcol	60
Toxicity	Canadian Food Inspection Agency (CFIA)	Approved
Flame spread	CAN/ULC S-102	6
Smoke developed	CAN/ULC S-102	110

CHEMICAL RESISTANCE

ASTM D-1308, spot test, covered, 5 days

CHEMICALS

RESULTS

Quaternary detergent, detergent 2%, chlorine 65% up to 10.000 ppm, clear crystal, copper controller up to 200 ppm, clear crystal clarifier up to 250 ppm, Orvus conc., butter, lard, citric acid 10%, sugar solution 20%, caustic sodium 10% and conc., ammonia 20%, potassium nitrate 20%, mineral spirits, gear grease, olive oil, sodium hydroxide 10%, sodium bicarbonate 20%, Oakite 1%, ale, formaldehyde vapour at 44°C, urine, sour milk, sodium hypochlorite 5%, sodium chloride 20%, dry lime, orange juice	Unaffected
Coca-cola, lipstick, blood	Slightly stained
Acetic acid 5%	Slightly softened and discolored
Household bleach 10%, potassium chloride 20%, hydrochloric acid 10%	Slightly discolored
Nitric acid 10%, sulphuric acid 10%	Discolored
Toluene, acetone	Softened and swollen
Test report available upon request	

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