



Glaze Coat / Sealer

DUROPLAST 305

DESCRIPTION AND USES

DUROPLAST 305 is a water base, clear flexible urethane acrylic glaze coat / sealer, specifically formulated to restore and protect concrete, terrazzo, masonry or wood. Ideal as protective coating on DUROPLAST 300 and 400 systems.

DUROPLAST 305 is practically odorless and exceeds the most severe volatile organic compound regulations.

CHARACTERISTICS

- Low odor
- Non yellowing
- Cures at temperatures as low as 4°C (39°F) without blushing
- Clear, satin or glossy finish
- High wear resistance
- Excellent bond to damp surfaces
- Good print resistance

APPLICATION INSTRUCTIONS

Surface Preparation

Surface to be coated must be sound and free from grease, oil or any other contaminant that may prevent proper adhesion.

Detergent wash, acid etch or mechanical preparation are recommended, depending on conditions. Unsealed surfaces must be primed first in order to obtain satisfactory adhesion.

Application

Stir material thoroughly prior to use.
 Primer: Thin DUROPLAST 305 gloss with equal amounts of water by volume.

Coating: Apply 1 or 2 coats as recommended.

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Protect from freezing.
- Priming is mandatory on unsealed new substrate.

PRECAUTIONS (cont'd)

- Avoid excessively thick applications to prevent loss of scratching resistance (glossy version) and whitish appearance (satin version). Not recommended for high gloss wooden floors.
- Do not apply material at temperatures lower than 4°C (39°F). Recoat time will be lengthened by approximately 50% if the temperature is lower than 13°C (55°F).
- Although non yellowing, DUROPLAST 305 is not recommended for exterior application since deterioration will occur under adverse weather conditions.

TECHNICAL INFORMATION

Solids content:	Per volume	39 – 41 %
	Per weight	41 – 43 %

V.O.C:	195–200 g/l (1.63-1.67 lbs/US gallon)
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Suggested primer*:	DUROPLAST 305 gloss thinned half and half with water
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Application method:	Spray, brush, roller
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Number of coats:	1, 2 for optimal service
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Recommended thickness:	
Primer *	20 – 27 microns dry (0.8 - 1.1 mils dry)
Coating	37 – 50 microns per coat (1.5 - 2 mils per coat)

Coverage per coat:	
Primer *	14-20 m ² /l (560-800 ft ² /US gal.)
Coating	7–10 m ² /l (280–400 ft ² /US gal.)

Curing time:	Touch dry	30 – 60 minutes
	Recoat	5 – 6 hours

Cleaning solvent:	Warm water
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Shelf life:	6 months in original unopened container
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Packaging:	3.78 and 18.9 litres (1 and 5 US gallons)
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* Mandatory on new/unsealed substrates or DUROPLAST 400 system. Not required when used as protective coating on DUROPLAST 300 base coat.

(over)

TECHNICAL DATA



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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 Water method B (On Duroplast 300 base)	20.0 perms
Abrasion resistance	ASTM D-4060 CS-17 wheels 1000 g/wheel 1000 revolutions	43 mg loss (27.5 microns groove (1.1 mil))
Bond strength	ASTM D-4541 On concrete, primed	> 1.73 MPa (> 250 psi) (substrate failure)
Tensile strength	ASTM D-2370 High yield At break	10.2 MPa (1,479 psi) 15.2 Mpa (2,204 psi)
Elongation	ASTM D-2370 High yield At break	17.2% 300%

CHEMICAL RESISTANCE ASTM D-1308, spot test, covered

<u>CHEMICALS</u>	<u>1 DAY</u>	<u>5 DAYS</u>
Water, aluminium sulfate 25%, potassium chloride 20%, potassium nitrate 20%, sodium chloride 10 & 20%, calcium chloride 20%, Oakite stripper 1%, quaternary detergent 4%, soap 2-7%, mustard seed oil, honey, lipstick, butter, olive oil, beer, coffee, coca-cola, sour milk, concentrated apple & orange juices, beef tallow, pig fat, table oil, glucose, vinegar, sulphuric acid 10%, phosphoric acid 10%, peracetic acid 10%, acetic acid 10%, citric acid 10%, formic acid 7%, hydrogen peroxide 6%, tween 20, acetonitrile, formaldehyde 10%, cotton seed oil, sodium hypochlorite 5%, transformer oil, bearing grease, motor oil, differential oil	Non Aff.	Non Aff.
Isopropyl ether, petroleum ether, pentane, fluoboric acid 10%, lactic acid 10%, synthetic urine	Non Aff.	(4)
Fantastik, detergent	Possible gloss reduction	
Chlorobutane	Non Aff.	(5)*
Round up	Non Aff.	(6)
Ferric chloride 50%, hydrochloric acid 10%	Non Aff.	3

* Not recommended where strong acids & alkalis, oxygenated and / or halogenated solvents are present. Fair chemical resistance upon exposure to aromatic & aliphatic hydrocarbons (permeable and gloss reduction)

LEGEND:

1: GLOSS REDUCTION	6: SWELLING	():	MINOR EFFECT
2: DISCOLORATION	7: BLISTERING	(()):	BARELY VISIBLE
3: STAINING	8: LOSS OF ADHESION	N. T.:	NOT TESTED
4: FADING / BLEACHING	*: RECUPERATES UPON DRYING	DESTR:	DESTROYED
5: SOFTENING	+: SEVERE EFFECT	NON AFF:	NO EFFECT

Test report available upon request.