



## UV Shield for Coating

### DESCRIPTION AND USES

DUROPLAST 500 UV is an aqueous acrylic urethane clear lacquer formulated to protect sensitive surfaces such as epoxy base coating and sealers for flooring systems (quartz and terrazzo), polyurethane and aromatic polyurea. against UVs. It is also suitable for masonry and wood, and available in a satin or gloss finish.

In addition, DUROPLAST 500 UV has excellent resistance to a vast array of chemical agents. Combined with great flexibility and excellent abrasion resistance, it provides outstanding durability in the most severe environments.

### CHARACTERISTICS

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

### 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.

Solvent, detergent wash, acid etch or mechanical preparation are recommended, depending on conditions. Unsealed porous surfaces must be primed first.

#### Application

Stir material thoroughly prior to use.

**Primer:** Thin DUROPLAST 500 UV gloss with equal amount of water by volume (Do not seal with satin finish).

**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 porous substrate.

## DUROPLAST 500 UV

### PRECAUTIONS (cont'd)

- Not recommended on black or dark colours (potential cloudiness).
- Avoid excessively thick applications to prevent loss of scratching resistance.
- 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 DUROPLAST 500 UV provides protection against UVs, it will lose its glossy finish 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)

Suggested primer\*: DUROPLAST 500 UV gloss thinned half and half with water

Application method: Spray, brush, roller

Number of coats: 2  
Recommended thickness:

Primer \* 7 - 10 microns dry  
(0.3 – 0.4 mil dry)  
Coating 13 – 20 microns per coat  
(0.5 – 0.8 mil dry per coat)

Coverage per coat:  
Primer \* 40-50 m<sup>2</sup>/l  
(1600-2100 ft<sup>2</sup>/US gal.)  
Coating 20-30 m<sup>2</sup>/l  
(800–1280 ft<sup>2</sup>/US gal.)

Coverage: 1 to 6 hours

Curing time: Touch dry 30 – 60 minutes

Cleaning solvent: Warm water

Shelf life: 6 months in original unopened container

Packaging: 3.78 and 18.9 litres  
(1 and 5 US gallons)

\* Mandatory on unsealed porous substrates.

# 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	9.6 perms
Abrasion resistance	ASTM D-4060 CS-17 wheels 1000 g/wheel 1000 revolutions	95 mg loss with 31 microns groove (1.25 mil)
Bond strength	ASTM D-4541 On concrete, primed	> 1.61 MPa (> 232 psi) (substrate failure)
Tensile strength	ASTM D-2370	14.0 MPa (2030 psi)
Elongation	ASTM D-2370 High yield At break	50% 110%

## 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.