



## Vinyl Acrylic Wall Coating

## DUROPLAST 300

### DESCRIPTION AND USES

DUROPLAST 300 is a two-coat, fluid applied system. The base coat is a 75% solids per weight solution of vinyl and acrylic resins. The glaze coat is a 35% solids dispersion of acrylic resins in solvents.

The two coats at a minimum total thickness of 375 microns (15 mils) dry to an attractive, seamless, tough, plastic finish suitable for interior walls and ceilings subject to frequent cleaning.

### CHARACTERISTICS

- Tough and high abrasion resistance
- Very high impact resistance
- Flexible and crack resistant
- Chemical resistant
- High scrub resistance
- Lasts 10 times longer than conventional coating
- Can be applied over any existing coating

### APPLICATION INSTRUCTIONS

#### Surface Preparation

Surface to receive DUROPLAST 300 shall be clean, uniform, smooth, hard, cured, free of holes, rust, dust, oil or any other contaminant, and shall have a moisture content less than 15%.

#### Application

Mix separately DUROPLAST 300 base coat and glaze thoroughly for 5 minutes.

Apply DUROPLAST 300 base coat with recommended equipment at specified rate.

Allow DUROPLAST 300 base coat at least 12 hours of drying before applying glaze coat.

Apply DUROPLAST 300 glaze coat at specified rate. Avoid overlapping wherever possible.

### PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Do not apply material at temperatures below 13°C (55°F).
- Ensure proper ventilation. Avoid flames and sparks when applying DUROPLAST 300 glaze coat.
- The applicators should wear air circulating masks for spray application of the glaze coat.

### TECHNICAL INFORMATION

Color:	Can match any specification. Glaze coat available in clear or color, mat, semi-gloss and gloss	
Mixing ratio:	Base coat and glaze coat are one-component	
Application method:	Base coat	Spray equipment or heavy duty roller recommended
	Glaze coat	Brush, roller or spray
Number of coats:	Base coat	1
	Glaze coat	1 or 2 depending on usage
Recommended thickness:	Base coat	300–375 microns dry (12–15 mils dry)
	Glaze coat	50–100 microns dry (2–4 mils dry)
Coverage:	Base coat	1.5 – 2 m <sup>2</sup> /l (60 – 80 ft <sup>2</sup> /US gal.)
	Glaze coat	5 – 6 m <sup>2</sup> /l per coat (205 –245 ft <sup>2</sup> /US gal.)
Recoat time:	Base coat	12 to 24 hours
	Glaze coat	3 to 5 hours
Curing time:	Base coat	Touch dry 2 hours
	Glaze coat	Touch dry 10 min.
Thinning solvent:	Base coat	Water
	Glaze coat	DUOCHEM 203
Cleaning solvent:	Base coat	Water
	Glaze coat	DUOCHEM 203
Shelf life:	1 year in original unopened container	
Packaging:	3.78 and 18.9 litres (1 and 5 US gallons) (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

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### TEST METHODS

### RESULTS

Water vapour transmission	CGSB 9-GP-2 or ASTM E-96 Procedure A	2.69 perms
Impact resistance	CGSB 1-GP-71 (147.1)	Unaffected at 9.0 J (80 in•lb)
Light resistance 240 hours	CGSB 1-GP-71 (120.1) ASTM E-188	Unaffected
Scrubability	CGSB 1-GP-71 (125.1), 10,000 cycles	Unaffected
Gloss before and after 10,000 cycle scrubability test	ASTM D-523	Unaffected
Fire and Smoke rating	ASTM E-84	Flame spread 0 Fuel contributed 0 Smoke developed 5
Tensile strength (Base only)	ASTM D-2370	1.6 MPa (230 psi)
Tear resistance	ASTM D-2370	1.6%
Aging process (2 weeks)	ASTM D-653	No effect
Toxicity	Canada Department of Agriculture	Approved

## CHEMICAL RESISTANCE

### CHEMICALS

ASTM D-1308, spot test, covered

### 1 DAY

### 5 DAYS

Soap solution 2%, detergent solution 2%, beer, concentrated Orvus, butter, lard, vinegar (acetic acid 3%), sugar solution 20%, ethyl alcohol 50%, sodium hypochlorite 3%, hydrochloric acid 10%, sodium hydroxide 20%, sodium chloride 20%, ammonium hydroxide 10%, potassium chloride 20%, potassium nitrate 20%, sodium bicarbonate 20%, Oakite, household bleach 10%, coffee, Coca-cola, urine, olive oil, heavy duty engine oil, gear grease, formaldehyde, mineral spirits and sour milk	Unaffected	Unaffected
Lipstick (red)	Reddish stain, removable with mineral spirits and acetone	Reddish stain, removable with mineral spirits and acetone
Nitric acid 10%	Unaffected	Yellowish stain with small blisters
Sulphuric acid 10%, lactic acid 10%, nitric acid 10%	Blisters	Swelling of surface and large blisters
Phosphoric acid 10%	Small blisters	Numerous small blisters
Chromic acid 10%	Brownish stain	Brownish stain
Blood and animal fat	Unaffected	Slight greying stain
Toluene and acetone Test report available upon request.	Large blister	Large blister