

Epoxy Coating

DUOCHEM 6001



DESCRIPTION AND USES

DUOCHEM 6001 epoxy coating is a two-component liquid epoxy emulsion. Applied on interior floors, walls, ceilings, machinery equipment, it hardens to a tough ceramic-like finish. Particularly suitable on almost any surface, in areas where an inexpensive, easy to clean and wear resistant coating is required.

CHARACTERISTICS

- Water based
- No smell, non-toxic, ideal for in-plant application during normal operation
- Economical
- Resistant to mild corrosive chemicals
- Highly scrub and wear resistant
- Available in pre-portioned units
- Washable

APPLICATION INSTRUCTIONS

Surface preparation

All surfaces to be coated should be free of wash, oil, grease or any other contaminant.

Painted substrate: Sand to remove gloss.

Metal substrate: Use Cor-Pro 470 universal metal primer.

Porous substrate: Use DUOCHEM VA or EE blockfiller.

Application

It is recommended to stir part A before adding part B as some soft settling may occur in the containers during storage.

Mix parts A and B mechanically for 5 minutes in recommended proportions. Allow material to induct for 30 minutes; remix and apply.

If material is reduced with a little tepid water to facilitate the application, then the same ratio of dilution should be used for all mixtures to avoid color changes that could happen from one mixture to another, especially for dark colors (particularly the blue).

Apply material according to the recommendations.

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Do not apply material at temperatures below 13°C (55°F).
- Do not freeze.
- Material might be affected by certain corrosive chemicals.
- White coating may yellow slightly.
- Not recommended for exterior use.

TECHNICAL INFORMATION

Color: DUOCHEM standard colors
Not available in security colors

Solids content: Per volume 34 – 35 %
Per weight 40 – 45 %
Varies with color

V.O.C.: 110 g/l (0.92 lbs/US gallon)

Mixing ratio: 3 parts A to 1 part B
(hardener) per volume

Pot life: 2 hours

Application method: Spray, roller, or brush

Number of coats: 1, 2 for optimum service

Coverage: 4.5 – 6.5 m²/l at 50 – 75
microns dry per coat
(185 – 265 ft²/US gallon at
2 – 3mils dry per coat)

Recoat time: 8 – 12 hours

Curing time: Dry 8 hours
Full cure 7 days

Thinning solvent: Water

Cleaning solvent: Water

Shelf life: 1 year in original
unopened container

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

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

PROPERTIES

TEST METHODS

RESULTS

Water vapour transmission	ASTM E-96 Dessicant – Procedure A	0.30 perm
Abrasion resistance (Masonite substrate)	ASTM D-4060 CS-17 wheels 1000 g/wheel 3 cycles of 1000 revolutions	126 mg / cycle
Direct impact resistance 1- Cement Asbestos Board 2- Galvanized phosphatized steel	CGSB 1-GP-71 (147.1) ASTM D-3029	Unaffected at 0.7 J (6 lbs•in) 6.2 J (55 lbs•in)
Scrubbability	CGSB 1-GP-71 (125.1) 10,000 cycles	Unaffected
Gloss before and after 10,000 cycle scrubbability	ASTM D-523	No loss
Toxicity	Department of Agriculture	Approved
Adhesion on concrete	ASTM D-4541	> 3.5 MPa (> 500 psi) (Substrate failure)
Adhesion on galvanised phosphatized steel	ASTM D-4541	2.1MPa (300 psi)

CHEMICAL RESISTANCE

ASTM D-1308, spot test, covered

CHEMICALS

RESULTS

Detergent 50%, Javel 10%, butter, lard, sour milk, glucose 20%, motor oil, hydroxide sodium 20% and sat., sodium chloride 20%, potassium chloride 20%, potassium nitrate 20%, sodium bicarbonate 20 and saturated solution, mineral spirit, orange juice conc., hydrogen peroxide 6%, sodium hypochlorite 5%, sodium carbonate 20%, Oakite 1%, Orvus	Not affected
Lipstick (red)	Pink stains
Coffee	Yellow stains
Beer, gear grease, Coca-Cola, olive oil, urine	Slightly yellowish stains
Soap 2%, ethyl alcohol 50%, JP 4 jet fuel, toluene, acetone, ethyl acetate, ethyl, citric acid 10%, acetic acid 3%, ammonium hydroxide	Slight softening (partial recovery when dry after 24 hours)
Hydrochloric acid 10 & 20%	Blisters, slight yellowing
Chromic acid	Brown stains, loss of gloss
Lactic acid 10%, nitric acid 10 & 20%, sulphuric acid 10, 20 & 50%	Affected
Test report available upon request.	