

TECHNICAL DATA



Epoxy Coating

DUOCHEM 7007

DESCRIPTION AND USES

DUOCHEM 7007 is a coloured epoxy coating factory filled with silica sand to produce a non-slip finish that is well suited to a wide range of industrial environments.

CHARACTERISTICS

- Convenient factory filled and pre-measured packaging
- Resistant to wear and several common chemical products.
- Low in V.O.C., meet LEED requirement
- Excellent adhesion to various substrates

APPLICATION INSTRUCTIONS

Surface Preparation

Surface must be sound, dry and free of all contaminants.

Wood:	Sanding
Existing epoxy:	Sanding, reactivate with solvent
Concrete:	Clean mechanically or acid wash, depending on conditions
Metal:	White sanding or sandblast

Contact DUOCHEM if needed.

Application

Mix part A until material is homogeneous then add part B. Mix mechanically during 3-5 minutes then pour material in a roller application tray or directly on the floor to spread with a 4 mm (5/32") notched squeegee before backroll with a 10- 12 mm (1/2") roller. Mix again before pouring more material in the tray or on the floor.

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Do not apply material at temperatures lower than 13°C (55°F).
- Watch for pressure build-up that can form after contact of DUOCHEM 7007 with moisture in partial containers. Re-open slowly to release any pressure gradually.

TECHNICAL INFORMATION

Generic:	Epoxy / Polyurethane
Color:	DUOCHEM standard colors
V.O.C.:	136 gm/liter (1.1 lbs/US gal)
Solids content:	85 % per volume
Mixing ratio:	As supplied
Induction time:	None
Pot life:	60 minutes
Suggested primer:	Self priming on most substrates Duochem 576 on porous concrete Contact DUOCHEM if needed
Application method:	Notched squeegee, medium nap roller 4 mm (5/32") and 10 mm (1/2")
Number of coats:	1 over existing epoxy 2 on new surface
Recommended thickness:	200-300 microns (8-12 mils) dry per coat
Coverage:	2.8 – 3.9 m ² /l per coat (115 – 160 ft ² /US gallon)
Recoat time:	24 hours
Curing time:	Touch dry 8 hours Full cure 7 days
Thinning solvent:	Not recommended
Cleaning solvent:	DUOCHEM 201 (before material hardens)
Shelf life:	1 year in original unopened container
Packaging:	3.78 litres & 18.9 litres (1 & 5 US gallon)

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DUOCHEM

DUOCHEM INC.
1250, Graham Bell
Boucherville (Québec)
J4B 6H5
www.duochem.com
e-mail:
sales_ventes@duochem.com

☎ 1 888 577-6421

QUÉBEC

☎ (450) 655-6421

MARITIMES

☎ (902) 468-7878
1 877 829-9769

ONTARIO

☎ (416) 665-5885
1 888 405-7222

WESTERN ONTARIO

☎ (519) 245-8151

WESTERN CANADA

☎ 1 877 455-9595

VANCOUVER

☎ (604) 521-0572

PHYSICAL PROPERTIES

0.4 - 0.6 mm (16 - 24 mils) in 2 coats
cured 7 days à 25°C

PROPERTIES

TEST METHODS

RESULTS

Tensile strength	ASTM D-2370	9.7 Mpa (1,115 psi)
Elongation at break	ASTM D-2370	6%
Abrasion resistance	ASTM D-4060 CS-17, 1000 g/wheel 1000 revolutions H-22, 1000 g/wheel 1000 revolutions	133 mg of loss 187 mg of loss*
Water vapour transmission	ASTM E-96	0.23 g/hr•m ² (0.33 grains/hr•pi ²)
Permeance	ASTM E-96	39.6 ng/Pa.•sec•m ² (0.69 perms)
Hardness	ASTM D-2240 Shore D	63
Water absorption	ASTM D-570 Permeability 24 hours Immersion 24 hours Immersion 7 days Immersion 2 hours in boiling water	10.7 g/ m ² 1.29% 1.66% 1.36%

* Standard 28 Mpa exhibit a loss of 3,872 mg when tested per the same method.

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.