



Fast Set Epoxy Binder

DUOCHEM 9700

DESCRIPTION AND USES

DUOCHEM 9700 is 100% solids by volume, two-component fast setting epoxy binder. When blended with selected aggregates, it produces an easy to trowel flooring system with excellent durability.

This product is specifically designed for plant shutdowns or for areas that must be put back to service quickly.

CHARACTERISTICS

- Dries very quickly
- Resistant to several chemical products
- Seamless and waterproof
- Compatible with several top coats
- CFIA approved

APPLICATION INSTRUCTIONS

Surface preparation

Substrate must be dry, sound and free of oil, grease, wax, paint, curing compound or any other contaminant.

Concrete: Mechanical cleaning or acid etch, depending on conditions.

Metal: Sandblast.

Wood: Clean and sound.

In case of doubt, consult DUOCHEM.

Application

Stir parts A and B separately to remix any settling that may have formed on long standing.

Primer
Pour on floor and spread immediately with a flat squeegee at the rate of 4 – 5 m²/l (165-205 ft²/US gal), approximately 11 – 14 m²/unit of 2.84 litres (445 -570 ft²/unit of 0.75 US gallon).

Trowelled matrix
Approximately 15-30 minutes after application of primer, when primed coat has become tacky, proceed with the application of the aggregate mix. Mix together parts A and B for 2 minutes, then immediately add 13 - 14 kg (28 – 30 lbs) of # 24 silica sand per unit of 2.84 litres (0.75 US gallon). Apply immediately with a trowel at the recommended thickness and let dry for approximately 4 hours. A 2.84 litre unit should cover 1.7 m² (18 ft²) at 6 mm (1/4") thick.

Grout Coat

When trowelled matrix has cured (3 – 5 hours), apply one coat with a flexible trowel or a flat squeegee at a rate of 2.5 m²/l (100 ft²/US gal) – approx. 7 m²/unit of 2.84 litres (75 ft²/ 0.75 US gallon). Follow the same mixing instructions as for the primer. Let product cure 4 – 6 hours before application of top coat of your choice, if desired.

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Do not apply material at temperatures below 4°C (39°F). Curing will take longer than mentioned above when the temperature is below 13°C (55°F).
- Ensure proper ventilation.

TECHNICAL INFORMATION

Color:	DUOCHEM standard colors	
Mixing ratio:	2 parts A to 1 part B (hardener) per volume	
Induction time:	None	
Pot life:	5 minutes	
Recommended aggregates:	4.6 – 4.9 kg/l (38.2 - 40.8 lbs/US gallon) Silica sand 24 mesh (0.7 mm)	
Application method:	Primer	Flat squeegee
	With aggregates	Trowel
	Grout coat	Flexible trowel, flat squeegee
Recommended thickness:	Primer	200 – 250 microns (8–10 mils)
	Trowelled	6 mm (1/4")
	Grout coat	375 microns (15 mils)
Coverage:	Primer	4.5 m ² /l (185 ft ² /US gallon)
	Trowelled	0.6 m ² /l (25 ft ² /US gallon) at 6 mm (1/4") thick
	Grout coat	2.5 m ² /l (100 ft ² /US gallon)
Curing time:	Trowelled	3 to 5 hours
	Grout coat	4 to 6 hours
Cleaning solvent:	DUOCHEM 201	
Shelf life:	1 year in original unopened container	
Packaging:	2.84 litres (0.75 US gallon)	

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

(Binder only)

<u>PROPERTIES</u>	<u>TEST METHODS</u>	<u>RESULTS</u>
Compressive strength	ASTM C-579 5 - 6 mm/minute	45.8 MPa (6,641 psi)
Tensile strength	ASTM C-307 5 - 6 mm/minute	31.1 MPa (4,510 psi)
Flexural strength	ASTM C-580 22.9 cm (9") at 3.4 mm/minute	27.0 MPa (3,915 psi)
Modulus of elasticity in flexion	ASTM C-580 22.9 cm (9") at 3.4 mm/minute	781 MPa (113,245 psi)
Bond strength	ASTM D-4541 On concrete	> 4.5 MPa (> 653 psi)
Abrasion resistance	ASTM D-4060 H-22 Wheels 1000 g 1000 revolutions	0.071 mm (2.8 mils) groove 159 mg loss *
Hardness (Durometer)	ASTM D-2240 (Shore D)	73
Water permeability and absorption	ASTM D-570 24 hours permeability 24 hours immersion at 23°C 7 days immersion at 23°C 2 hours immersion in boiling water	8.1 g/m ² 0.25 % 0.80 % 0.70 %

* Standard 28 MPa concrete exhibits 0.63 mm groove and 3,872 mg loss when tested per this procedure.

Test report available upon request.