

FLOOR Projection Paint

Product Data Sheet · Two-component water-based epoxy floor coating

PRODUCT DESCRIPTION

Paint On Screen FLOOR is a two-component, water-based polyamine epoxy floor coating that cures to a durable satin projection surface. The film is breathable, resists chemicals and abrasion, and is self-priming on concrete. FLOOR is made for projection floors in simulators, theatres, training facilities and immersive multi-projector spaces, and for commercial and industrial floors in general.

- Breathable film that resists disbondment from moisture vapour transmission
- Very low VOC: under 50 g/L by EPA Method 24, and 2 g/L as mixed under EU Directive 2004/42/EC
- Good colour retention; resists yellowing
- Water thinning and clean-up; no induction time after mixing
- For professional and industrial use

PRODUCT CHARACTERISTICS

Components	Part A, pigmented epoxy base (G00FLOORA). Part B, hardener (G00FLOORB).
Mix ratio	4 parts A to 1 part B, by volume
Finish	Satin, 15 to 25 gloss units at 85°
Colour	Grey, tinted from a white base. Custom tints on request.
Volume solids	41 % ± 2 %, mixed
Weight solids	50 % ± 2 %, mixed
Density	About 1.2 kg/L mixed (9.9 ± 0.2 lb/US gal)
VOC	< 50 g/L mixed (EPA Method 24). 2 g/L mixed (EU Directive 2004/42/EC).
Flash point	> 110 °C (230 °F), Seta flash, mixed. Closed cup: not applicable.
Thinner and clean-up	Clean water
Shelf life	Part A 24 months, Part B 36 months, unopened
Storage	Indoors, 4.5 °C to 38 °C (40 °F to 100 °F). Protect from frost.

Solids and density may vary by colour.

FILM THICKNESS AND COVERAGE PER COAT

Wet film thickness	125 to 300 µm (5.0 to 12.0 mils)
Dry film thickness	50 to 125 µm (2.0 to 5.0 mils)
Recommended dry film	50 to 100 µm (2.0 to 4.0 mils) per coat
Approximate coverage	3.3 to 8.1 m²/L (130 to 320 sq ft/US gal), depending on film thickness

Vertical surfaces and cove bases applied by brush or roller may need extra coats to reach full film thickness and an even appearance.

DRYING SCHEDULE AT 175 µm (7 mils) WET FILM

	10 °C (50 °F)	25 °C (77 °F), 50 % RH	49 °C (120 °F)
Touch dry	1 hour	1 hour	30 minutes
Recoat, minimum	8 hours	6 hours	3 hours
Recoat, maximum	72 hours	72 hours	72 hours
Foot traffic	36 hours	18 hours	8 hours
Heavy traffic		48 hours	
Full cure	7 days	7 days	7 days
Pot life	8 hours	5½ hours	3½ hours

Drying time depends on temperature, humidity and film thickness. If more than 72 hours pass between coats, abrade the surface before recoating.

PERFORMANCE

System tested: two coats of FLOOR at 50 to 100 µm (2 to 4 mils) dry film each, on clean, dry, sound concrete.

Property	Test method	Result
Abrasion resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	150 mg loss
Adhesion	ASTM D4541	3.8 MPa (550 psi) on concrete
Flexibility	ASTM D522	180° bend, 3 mm (1/8 in) mandrel
Impact resistance	ASTM D2794	Direct 11.3 N·m (100 in·lb). Indirect 9.0 N·m (80 in·lb).
Pencil hardness	ASTM D3363	H
Water vapour permeance	US perms, grains/(h·ft ² ·inHg)	5.0
Hot tyre pick-up	Manufacturer's method at 60 °C (140 °F)	Pass
Slip resistance	ANSI 326.3 / NFSI B101.3, dynamic coefficient of friction	Passes when dry with an anti-slip additive

Results are the coating manufacturer's published values for the base system. They may vary by colour.

RECOMMENDED SYSTEMS

Substrate	System	Dry film per coat
Bare concrete	1 primer coat of FLOOR thinned with up to 10 % water, then 2 coats of FLOOR	50 to 100 µm
Previously painted concrete	Spot-prime bare areas with FLOOR, then 2 coats of FLOOR	50 to 100 µm
Wood floors	2 coats of FLOOR	50 to 100 µm

These systems are representative. Other systems may be suitable; ask Paint On Screen.

APPLICATION LIMITS

- Air, surface and material temperature: 10 °C to 38 °C (50 °F to 100 °F)
- Surface temperature at least 2.8 °C (5 °F) above the dew point
- Relative humidity: 85 % maximum
- Do not use hydrocarbon solvents for cleaning the surface or the tools

Read the FLOOR Installation Guide and the Safety Data Sheets for Part A and Part B before use. Technical data can change without notice; the user must confirm that the product suits the intended use.

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