

ENVIROPOXY EP100, 300, 400 PRODUCT DATA SHEET

DESCRIPTION

Enviro Epoxy's line of two-component 100% solids epoxy floor coatings are advanced formulations based on high performance epoxy resins and designed to provide superior functional and decorative properties. EnviroPoxy delivers environmentally friendly, cost-effective protection for concrete floor coating in commercial, industrial, and residential applications.

EnviroPoxy increases the life of the substrate by providing high chemical resistance, high mechanical strength, excellent durability, and adhesion, while offering a beautiful porcelain-like high gloss finish.

SHEEN	HIGH GLOSS
VOLUME SOLIDS	100%
SOLVENTS	NIL
WATER	NIL
VOC	0 g/L
MIXED POT LIFE	45 MINUTES
SHELF LIFE	3 YEARS

Coverage (per 4L Kit)

	Porous (min)	Non-Porous (max)
Base Coat (@ ~3-5 mil)	250 – 300 sq.ft	350 – 380 sq.ft
Top Coat (@ ~10 mil)	280 – 350 sq.ft	380 – 400 sq.ft

* Actual coverage will depend upon the porosity and profile of your substrates. Allowances must be made for variations of film thickness during application

Cure Times (@ 21°C, 50% RH)

	Standard (EP100)	Fast Dry (EP300)	Quick Set (EP400)
Working Time	45-60 minutes	40-50 minutes	30-40 minutes
Dry Time (touch dry)	20-24 hours	12-14 hours	6-8 hours
Light Foot Traffic	1-2 days	1 day	10 hours
Heavy Traffic	5-6 days	5-6 days	2-3 days
Full Cure	7 days	6 days	3-4 days
Recoat Time (min – max)	20 hours – 72 hours	12 hours – 72 hours	6 hours – 60 hours
Ambient Application Temperature (minimum)	5 °C	5 °C	0 °C

Technical Information

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
ADHESION	ASTM D7234	> 395 psi
SHORE D HARDNESS	ASTM D2240	78
COEFFICIENT OF FRICTION	ANSI A326.3	0.75
COMPRESSIVE STRENGTH	ASTM D695	14,225 psi at 7 days
FLEXURAL STRENGTH	ASTM D790	11,400 psi at 7 days
TENSILE STRENGTH	ASTM D638	6,830 psi at 7 days

APPLICATION DATA

Surface Preparation:

Shot blasting, diamond grinding or sanding is recommended. EP100 100% Solids Epoxy Coating should be applied only on clean, dry and sound surfaces. Any contaminants such as oil, grease, dust, dirt, wax, deleterious material, release agents and laitance must be removed by mechanical means. **Washing the floor is not recommended.**

Enviro Poxy should not be applied to paints that are prone to flaking or peeling. Clean and prepare concrete surfaces mechanically or clean surfaces with a degreaser, rinsing thoroughly. Allow the surface to dry before applying the coating. A clean, dry, solid, uncontaminated substrate should be provided.

Concrete: Freshly poured concrete must age a minimum of 30 days before the coating is applied. Moisture content in the concrete is recommended to be less than 5% prior to application.

Mixing Instructions: Do not mix the two components until you are ready to begin the application. Refer to the mixing instructions provided.

Once mixed, the coating must be applied within 45 minutes. To mix, pour entire contents of Part-B into the container of Part-A and mix thoroughly.

Application Methods: Apply coating using a flat or notched squeegee, a high quality, lint free low pile roller (5 mil roller recommended) or a standard brush. Allow for specified drying time before applying the second coat.

Clean Up:

Clean skin with soap and water or a standard hand cleaner immediately. Do not let the coating dry.

First Aid Measures:

Skin: Wash with soap and water.

Eyes: Flush with water for 15 minutes. If irritation persists, consult a physician.

Ingestion: Do not induce vomiting and consult a physician.

Limitation: Do not thin or dilute coating. Do not apply over a wet or dirty surface. Do not apply at an ambient temperature under 5°C (0°C for Quick Set)

Storage: Tightly seal containers at normal room temperature. Exposure to moisture will decrease shelf life.

Caution: Keep out of reach of children. Consult SDS for more information.

Packaging: 2 litre, 4 litre, 8 litre, 16 litre

Mixing Ratios by Volume:

Clear 1.75 : 1 (Part A : Part B) **Colour** 2 : 1 (Part A : Part B)

CHEMICAL RESISTANCE (IMMERSION)

REAGENT	3 HOURS	24 HOURS	3 DAYS	7 DAYS	28 DAYS
Deionized	Excellent	Excellent	Excellent	Excellent	Excellent
Road Salt	Excellent	Excellent	Excellent	Excellent	Excellent
Ethanol	Moderate	Moderate	Moderate	Moderate	Moderate
MEK	Excellent	Good	Moderate	-	-
10% Lactic Acid	Good	Good	Moderate	Moderate	Poor
10% Acetic Acid	Good	Good	Moderate	Moderate	Poor
10% Sulfuric Acid	Excellent	Excellent	Excellent	Good	Good
70% Sulfuric Acid	Excellent	Excellent	Excellent	Good	Good
50% Sodium Hydroxide	Excellent	Excellent	Excellent	Excellent	Excellent
10% Sodium Hypochlorite	Excellent	Excellent	Excellent	Excellent	Excellent

ABRASION TESTING

Enviro Poxy is a two component 100% solids epoxy coating system, tested by an independent lab for abrasion resistance relative to four concrete floor coatings. Each coating was applied by a 5 or 10mm pile roller in two coats to smooth concrete stones and allowed to dry cure at room temperature. Abrasion tests were conducted at two intervals, 48 hours and 7 days from the time of the second coat application.

PROCEDURE

Abrasion testing was performed on a standard gardner-style scrub tester, using diamond grit no.220 wet abrasion paper, kept wet by periodic water spray and changed every 1000 cycles. Cycles to fail indicate the number of abrasive cycles to wear through the coating film and expose a minimum of one square inch of the concrete substrate.

ABRASION TEST RESULTS

COATINGS	CYSCLES TO FAIL	
	AFTER 48 HOURS	AFTER 7 DAYS
Solvent Based Alkyd Paint	48	128
Solvent Based Urethane	64	96
Two Part Water Based Epoxy	144	224
Twp Part Solvent Based Epoxy	336	1,024
Enviro Epoxy 100% Solids Epoxy	5,912	6,992

Clean Up & Disposal:

Clean up mixing and application equipment immediately after use. Use acetone or xylene. Follow solvent manufacturer’s safety instructions. Use “waterless” hand cleaner to remove dried material from skin. Be sure to follow all local, state and federal regulations when disposing of materials.



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