EG-1050

MOISTURE VAPOR BARRIER PRIMER

1-844-557-3729

BUILD TOGETHER

TECHNICAL DATA SHEET (version 08/2021)

Description

EG-1050 is a two-component primer based on epoxy resin. It has been specifically formulated for maximum adhesion to concrete surfaces. It is one of the essential components of the PolyTerra system thanks to its great ability to repel water molecules. Designed for general use, EG-1050 is a 100% strong, self-leveling primer. It is used as a smooth, seamless vapor barrier coating. It is particularly recommended for high traffic areas. It is a product with very good mechanical and chemical resistance with an unlimited choice of colors.

Advantages

- Excellent barrier to water vapor
- Very fast
- setting Good mechanical and chemical
- resistance Excellent resistance to abrasion
- Excellent resistance to the proliferation of fungi and bacteria
- Zero VOC allowing interior application without harmful odors
- Durable waterproof and seamless
- Easy to clean and maintain
- Excellent adhesion to concrete
- Unlimited color, no minimum required
- Complies with CFIA standards for use in food plants
- Can contribute greatly to LEEDv4 credit

Applications

- Arenas and sports centers
- Commercial and industrial facilities
- Food factories and service areas catering
- Institutional and recreational facilities
- Warehouses and medium to heavy duty production areas
- Printing and pulp and paper
- mills Refineries and chemical plants
- Retail stores
- Schools, universities and hospitals
- Car dealerships and aircraft hangars

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Instructionst surface preparation

The concrete surface must be perfectly clean and all contaminants such as dust, laitance, grease, oil, dirt, rust, existing paint films, efflorescence, biological residue must be removed from the surface by means of appropriate mechanical devices (**NewGrind CSP 3-4** or equivalent). The compressive strength of the concrete substrate should be at least 25 MPa (3625 lbs per square inch) at 28 days.

Preparation of the mixture

Pre-mix each component separately. Empty component B in the correct mixing ratio to component A. Mix the combined components for at least (2-5) minutes, using a low speed drill (300-450) to minimize air entrapment. During the mixing operation, scrape the sides and bottom of the container with a flat or straight trowel at least once, to ensure thorough mixing. When fully mixed, the color and consistency should be uniform. Mix only the amount that can be used during the pot life.

Application

Primer or Basecoat: Apply EG-1050 as a basecoat using a squeegee or roller to achieve a uniform film build (10-15 mils) without puddling.

Waiting time between coats and surface temperature

10 °C	12 hours minimum	24 hours maximum
20 °C	6 hours minimum	24 hours maximum
30 °C	4 hours minimum	12 hours maximum

Caution

- Minimum concrete temperature: 10 °C
- Maximum concrete temperature: 30 °C
- Maximum relative humidity during application and curing: 85%
- Concrete temperature must be 3 °C higher (5, 5 °F) at measured dew point
- This product is for indoor use only

Technical Data

Packaged in 18.9 L and 3.78 L sets
Custom color available upon request.
Coverage **Primer:** 120 - 140$^{sq.ft./Gal}$.) (10 - 15 mils)

Shelf life 2 years in original unopened packaging stored dry between 5 - 32°C (41 - 89 °F). Product temperature should be between 18-30 °C before use.

Mixing ratio A:B= 2:1 by volume

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Service temperature	Min.	0 °C (32°F)
	Max.	50 °C (122°F)
Pot Life 150g (min)		25 – 30 min
Time (0.1-0.15mm)		6 - 8 hours
Curing Time		
Foot traffic		12 – 24 hours
Light motorized traffic		02 – 03 days
Properties at 23°C (73°F) and 60% RH.		
Specific Gravity ASTM D1475	A:	1.111
	B:	1.012
	A+B:	1.078
Water Vapor Permeability (ASTM E-96):		0.089 (perms) (10 mil thickness)
		0.053 (perms) (16 mil thickness)
Compressive Strength ASTM D695		94 MPa
Flexural Strength ASTM D790		89.8 MPa
Tensile Strength ASTM D638		56.29 MPa
% Flexural Elongation		5 %
Elongation Tensile		3.2%
Pullout Strength (ASTM D7234)		7.62 MPa (concrete failure)
Hardness, shore D ASTM D2240		77-81
Abrasion Resistance ASTM D4060		
Taber Abrader; CS17 / 1000 g (2.2 lbs)		0.050 g
Water absorption ASTM D570 (24h)		0.14 %
Water absorption ASTM D570 (7 d)		0.36 %
Static and dynamic coefficient of friction		
ASTM D1894 (Steel on resin)		µs: 0.31 µk: 0.25
(72 Shore A rubber on resin)		µs: 0.92 µk: 0.92
VOC content		<10 g/L

Cleaning

Clean all tools and equipment with EXPERT 3G EPOCLEAN cleaner. Once cured, the product can only be removed mechanically.

Health & Safety

For information and advice on the safe handling, storage and disposal of chemicals, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other security-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY