

WATER-BORNE EPOXY PRIMER

TECHNICAL DATA SHEET A-WBEPRIME

A two-part epoxy primer that creates a waterproof barrier and provides high abrasion resistance.

PRODUCT DESCRIPTION

Water-borne Epoxy Primer (WBE-P) is a two-part epoxy, low VOC coating intended for use as a protective basecoat and primer over porous and non-porous substrates. WBE-P is nano-formulated with resilient organic materials that bridge substrates and topcoats with strong adhesion.

WBE-P's formulation is durable to protect against harsh abrasion, chemicals, acids, alkalis, oils, and cleaning agents, and dries to create a waterproof barrier.

WBE-P is designed to be used as a primer over Armus Roof Guard, Thermal Guard Roofs, and Floor Guard Extreme.

ADVANTAGES

- Bridges substrates in prep for topcoat
- Provides strong adhesion on porous / non-porous substrates
- Durable formula provides high abrasion resistance
- Creates a waterproof barrier
- Excellent resistance to water and chemicals
- Ideal for bituminous substrates

COMPATIBLE SUBSTRATES

- Concrete
- Cement
- Bitumen
- TPO & EPDM
- Metal Roofs

USES

- Roofs
- Flooring

PRODUCT INFORMATION

Available Packaging	2.5 gal. unit (2 containers – Part A Base & Part B Hardener)
Storage Conditions	Store dry at 40-95 °F (4-35 °C) Condition material to 65-85 °F (18-30 °C) before using.
Solid Content by Volume	42.8%

TECHNICAL INFORMATION

Type	Two-component water-borne epoxy resin
Color	Milky white that dries clear
Components	Part A (Base) Part B (Hardener)
VOC Content	< 25 g/L
Thinner / Cleaning Solvent	Water
Thinning Percentage	5-15% (v/v) Drying times may vary depending on relative humidity and substrate surface humidity
Combination Density	10.03 ± 0.05 g/cm ³

MIXING RATIO

Base A : Hardener B Ratio (Volumetric)	3 : 1
Base A : Hardener B Ratio (Mass)	2.68 : 1
Density Base A	62.43 lb/ ft ³ (1.08 kg/L)
Density Hardener B	69.92 lb/ ft ³ (1.12 kg/L)
Density Mix	64.3 lb/ ft ³ (1.03 kg/L)
Solid Content by Volume	42.8%

APPLICATION INFORMATION

Coverage (with no loss factor)	407.46 sq. ft. / gallon (10m ² /L, no dilution calculated)
Pot Life	Maximum of 45 minutes @ 75°F (25°C)
Touch Dry	2 hours @ 75°F (25°C)
Full Dry / Foot Traffic	14 hours @ 75°F (25°C)
Full Cure	7 days @ 75°F (25°C)
Minimum Recoat Interval	24 hours after previous application
Application Temperature	50-95°F (10-35°C)
Substrate Application Temperature	50-95°F (10-35°C)
Application Conditions	Humidity should be under 75% and rain should not be expected within 24 hours after application. Roof moisture should not exceed 15% prior to application.

APPLICATION INSTRUCTIONS

EQUIPMENT

The preferred method of application is either by squeegee and roller or by airless sprayer.

If applying via airless sprayer, see below for airless sprayer specifications.

Material Flow: 2.9 gal / min (11 L/min)
Max Pressure: 270-300 bar
Air Intake Pressure: 5-6 bar
Pump Filter: 30 Mesh
Hose: 3/8"
Nozzle: 0.027" – 0.031"

RECOMMENDED SYSTEM

Depending on project needs, Armus recommends the following topcoats for use with WBE Primer: Roof Guard, Thermal Guard Roofs & Floor Guard Extreme.

SURFACE PREPARATION

1. Wear protective gloves & gear before applying.
2. NEW ROOFING SUBSTRATES from cement and new masonry should have cured for more than 4 weeks prior to application.
3. Surface must be cleaned from dirt, debris, and any residue.
4. Scrub away mold or mildew, or power wash if necessary. We recommend using a high-performance vacuum to clean the surface.
5. Allow surface to dry completely.
6. For roofing projects, ensure moisture of the roof is less than 15% prior to application.

MIXING

1. Open Part A Base. Using a power drill and paddle paint mixer, mix Part A well for a minimum of 1 minute. It is composed of solids, so ensure Part A Base is mixed until fully homogenous.
2. Pour all of Part B into the Part A container. Completely mix Part A (Base) & Part B (Hardener) together.
3. Mix well for a minimum of 1 minute using a power drill and paddle mixer a low RPM in the Part A container.
4. Scrape the sides of the container to ensure that no unmixed material remains. Mix frequently during application to maintain uniform color.

APPLICATION

1. Start with penetration points, seams and joints. Take Perma-Flash fleece and dip into mixed WBE-P. Shape fleece around joints, seams and penetration points. Allow WBE Primer & fleece to dry and cure. Use paintbrush to apply WBE-P over applied fleece.
2. Using a paint brush, paint any edges of your working section. You should work from the exterior to interior of your coverage area.
3. If using airless sprayer, spray over application area evenly.
4. If using roller, pour material and spread evenly.
5. Work in sections until entire area is coated in the same manner, ensuring your spread rate is consistent across the project. Each mixture has a maximum 45-minute working time (at 77°F / 25°C).
6. Allow WBE Primer to dry for 8 hours between coats if applying additional coats.

7. WBE Primer fully dries in 24 hours, and fully cures in 48 hours.
8. If working in hotter temperatures, store material in shade or in a cool area to maximize pot life.
9. Once 48 hours have passed, ensure moisture content is less than 4% before applying topcoat.

SAFETY INFORMATION

Always read the product SDS for safety instructions and precautions before use. Use appropriate safety equipment and job-site controls during handling, application, and storage.

For further information regarding transportation, handling, storage and disposal of chemical products, users should refer to the SDS.

LIMITATIONS

- Do not store materials outdoors exposed to sunlight, extreme heat, or open flame for extended and prolonged periods.
- To avoid dew point conditions during application, relative humidity must be no more than 75% and substrate must be at least 5°F above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 40°F (5°C); maximum is 95°F (35°F).
- Any repairs required to achieve a level surface must be performed prior to application. Surface irregularities may reflect through primer and the final cured topcoat.
- Do not apply to a porous or damp surface where vapor transmission may occur during drying or curing time.
- Substrate must be dry prior to application. Do not apply TGR to wet, damp, or frosted surfaces.
- Do not apply if rain is imminent within 24 hours of application. This will leave sufficient time for drying and curing.
- Proper safety precautions should be taken to prevent product vapor and odors from entering the building. This includes but is not limited to: sealing air intake vents, air conditioners, and other means of vapor ingress during application and curing.

WARRANTY

The information and recommendations provided are based on thorough research conducted by ourselves and others, and we believe them to be accurate. However, we do not guarantee complete accuracy because it is impossible to cover every potential application of our products or anticipate all variations that may occur in substrates, surfaces, job conditions, and application methods. It is the responsibility of purchasers to conduct their own tests to determine the suitability of our products for their specific purposes.

ARMUS LLC provides a warranty that this product is free from defects. However, ARMUS does not make any other express or implied warranties regarding this product,

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