

FLOOR GUARD EXTREME

TECHNICAL DATA SHEET

A-FLOORX

A two-part self-leveling polyaspartic elastomeric coating with high resistance to abrasion, impact, water, and UV damage.

PRODUCT DESCRIPTION

Floor Guard Extreme is a fully bonded coating suitable for the most demanding surfaces. With a modified polyaspartic component, Floor Guard Extreme assures extreme values of tensile strength, elasticity, and adhesion to substrates. With its extreme durability, it is ideal for high-traffic interior and exterior surfaces.

Unlike other traditional exterior paints, Floor Guard Extreme presents a unique resistance to harsh weathering, standing up to ponding water or heavy UV irradiation values, meaning it lasts longer, won't fade, and requires less maintenance.

Floor Guard Extreme can be applied directly to new substrates and surfaces that have been cleaned. For older substrates, ARMUS Water-borne Epoxy Primer is required as a base coat with Floor Guard Extreme as a topcoat.

ADVANTAGES

- Self-leveling
- Fast curing time (24 hours)
- High resistance to impact
- High resistance to UV damage
- Creates a water-proof barrier
- Elastomeric flexibility can expand and contract with changing temperatures without failing
- Low roughness accumulates less dirt
- 100% solids by volume

COMPATIBLE SUBSTRATES

- Concrete
- Cement
- Asphalt

USES

- Warehouse / industrial floors
- Exterior asphalt surfaces
- Parking lots and structures
- Road markings
- Ramps

PRODUCT INFORMATION

Available Packaging	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	100%

TECHNICAL INFORMATION

Type	Two-part coating based on polyaspartic ester base
Color	White
Components	Part A (Base) Polyaspartic Ester Part B (Hardener) Aliphatic Isocyanates
VOC Content	< 1 g/L

Required Primer (for older substrates)	Armus Water-borne Epoxy Primer
Hardness (Shore D)	44
Thermal Conductivity (ISO 12667:2004)	0.5123 W/(mk)
Elongation at Break	428% @ 77°F (25°C)
Water Absorption	19 kg/m ²
Weathering Resistance	8,000 h (UV-B) -40°F to 186°F (-40°C to 85°C)

MIXING RATIO

Base A : Hardener B Ratio (Volumetric)	1.85 : 1
Base A : Hardener B Ratio (Mass)	1.85 : 1
Density Mix	1.13 ± 0.05 g/cm ³
Solid Content by Volume	100%

APPLICATION INFORMATION

Coverage (with no loss factor)	~80.27 sq. ft. per gal @ 20 mil (508 µm) dry film thickness ~40.14 sq. ft. per gal @ 40 mil (1016 µm) dry film thickness ~26.75 sq. ft. per gal @ 60 mil (1624 µm) dry film thickness
Pot Life	Maximum of 45 minutes @ 75°F (25°C)
Touch Dry	2 hours
Full Dry	6 hours @ 75°F (25°C)
Full Cure	48 hours @ 75°F (25°C)
Minimum Recoat Interval	3 hours after previous application
Application Temperature	41-95°F (5-35°C)
Application Conditions	Humidity should be under 75% and rain should not be expected within 24 hours after application. Substrate moisture should not exceed 15% prior to application.

APPLICATION INSTRUCTIONS

EQUIPMENT

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

RECOMMENDED SYSTEM

Armus recommends using our Water-borne Epoxy Primer as a base coat prior to application of Floor Guard Extreme on old substrates. WBE Primer works on almost every substrate and is specially formulated to provide added adhesion.

NOTE: ON NEW SURFACES AND INSTALLED REPAIR MATERIALS, ENSURE SUBSTRATE IS FULLY CURED PRIOR TO APPLICATION.

SURFACE PREPARATION

1. Wear protective gloves & gear before applying.
2. All surfaces should be clean, dry, and free from dust, oil, grease, loose materials, and contamination.
3. Scrub away mold or mildew, or power wash if necessary.
4. Allow surface to dry completely.
5. **REQUIRED FOR OLD SURFACES:** Apply base coat of ARMUS WATER-BASED EPOXY PRIMER to increase adhesion. Allow WB-Epoxy Primer to cure and dry for 24 hours.

6. Fleecing joints, seams and penetration points may be required during the application of WBE Primer. See WBE Primer Application Guide for additional details.
7. Along the edges of a floor with vertical elements, connection-joints on the substrate (wider than 1mm) must be sealed with a polyurethane sealant 24 hours after the application of the Water-borne Epoxy Primer.
8. Allow 24 hours for the polyurethane sealant to cure before applying Floor Guard Extreme.

MEASURE COVERAGE AREA

Depending on the desired dry-film thickness, measure & use tape to mark the corners of the area on the roof for each application section.

Doing so is the easiest way to ensure that you are not over-spreading the material, and that the application of Floor Guard Extreme is applied at the proper spread rate.

APPLICATION BY ROLLER

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 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 using mixer for a minimum of 1 minute. Mix at a low RPM in the Part A container.
3. If needed, transfer the mixed materials into a new bucket for easier roller application.

4. Start by brush-painting the perimeter edges.
5. Dip the roller into the mix for loading. Roll a liberal amount of the mixture onto the surface in a zigzag pattern. Then fill in the space with crisscross strokes.
6. Once the area is covered, "level the finish" by laying off long, parallel strokes.
7. Tape 4" (10cm) wide of fiberglass mesh across joints or cracks later than 1.5mm (60mils). Laying-off needs to be done before Floor Guard Extreme begins curing, so it's best to work in sections.
8. Working time for Floor Guard Extreme is 45 min at 77°F (25°C).
9. Allow Floor Guard Extreme to dry and cure. Floor Guard extreme cures in 24 hours.
10. After Floor Guard Extreme has cured, apply a polyurethane "flexible" sealant for "leveling-off" expansion joints. If needed, recoat after 180min.

APPLICATION BY SQUEEGEE

11. You will need 1,500g of sand for each gallon of Floor Guard Extreme if applying by squeegee. For final dry film thickness of 20 mils, select quartz sand with thickness around 200 nanometers / 8 mils.
12. Empty the quartz sand into Base A, stirring vigorously. Always mix Hardener B to Base A. For each volume of Base A, add 2/3 of Hardener B by volume.
13. Use a mixing bucket, paddle mixer, and/or drill for thorough mixing.
14. Continue mixing for three minutes after adding Hardener B into base A. Ensure that the paddle mixer reaches all edges of the mixing container.
15. If needed, transfer the mixed materials into a new bucket for easier squeegee application.
16. Pour ½ liter of the mixture on the application area. Use a wide, good quality squeegee, notched at the desired dry film thickness. For example, 1mm notches for 1mm dry film thickness.
17. Spread uniformly by "pressing lightly" on the squeegee.
18. Then use a "spiked roller" for uniformity and degassing (removing air bubbles).
19. Working time for Floor Guard Extreme is 45 min at 77°F (25°C).
20. Allow Floor Guard Extreme to dry and cure. Floor Guard extreme cures in 24 hours.

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 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 Floor Guard Extreme 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.

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