

## TECHNICAL DATA SHEET

### DESCRIPTION:

AFTERSHOCK is the ideal hybrid polyaspartic coating system for all commercial and industrial flooring applications. Its aliphatic chemistry provides enhanced durability, color stability under UV exposure, and a 1:1 mix ratio with adequate pot life to easily apply by roller or sprayer – even in low temperatures or high humidity environments.

### ADVANTAGES:

Polyaspartics have a much lower odor than competing products, and are able to cure even at temperatures just above freezing. It's possible to apply the coating in sub-zero conditions with special handling techniques, giving it exceptional UV resistance without any yellowing or loss of glossiness over time. There is also excellent color stability on offer making this product ideal for decorative applications – create multi-colored patterns and logos using flakes, particles or signs! Additionally you can be sure that it will withstand abrasion & impact as well being resistant against skydrols and hot tire peel too! Plus there's high build capability up to 10 – 12 mils maximum available in low VOC (Volatile Organic Compound) formulations plus zero VOC options which make them suitable even in restricted areas such as Southern California Micro media traction agents give an extra layer of protection by introducing into the liquid system when applied directly onto surfaces requiring friction coefficients properties. AFTERSHOCK can be matted with an appropriate additive and offers a robust and reliable bond to virtually any material – from metal, concrete and fiberglass – in all sizes. Its durability is remarkable too, withstanding temperatures of up to 300°F (149°C).

### PRIMARY APPLICATIONS:

For durable performance in a wide range of industrial applications, look no further than our UV-stable top coat. This coating is specifically designed to protect your garage floor, aircraft hangar floors, balconies, patios and maintenance facilities from wear and tear. It also excels as an interior lining for car washes or wash bays as well as shield secondary containment areas like cooling towers or wastewater systems from corrosion.

### SURFACE PREPARATION:

#### **OLD CONCRETE:**

To ensure the best product performance, it is important to correctly prepare a concrete surface prior to application. BLASTRAC or sand blasting with 30 grit and above, diamond grinding of coarse level, water blasting are highly recommended for cleaning away any contaminants on the substrate's surface. All oils and fats must be completely removed before applying products; acid etching may also have to be done as an additional step (followed by rinsing). Applying these treatments onto wet surfaces should not occur – rather check chloride levels moisture content and pH balance first.

#### **NEW CONCRETE:**

Allow concrete to cure for 30 days minimum, ensuring it has a compression resistance of 25 MPa (3625 lb/in<sup>2</sup>) and traction resistance of 1.5 MPa (218 lb/in<sup>2</sup>) after 28 days before proceeding with surface preparation. BLASTRAC sandblasting or diamond grinding with 30 grit disc is necessary to eliminate laitance that forms during curing process; then use primer to reduce out-gassing and promote extra strong adhesion.



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### MIXING:

For the base coat mixture, blend part A and B together in a 1:1 ratio. Use a clean dry mixing container to mix one gallon of Part A with one gallon of Part B along with 500ml desired pigment. Stir gently as over-mixing or creating an air vortex can introduce moisture which will decrease pot life below dew point temperature. Induction time is not necessary when using this epoxy product however media agents may be added after both components have been well combined. Please note that large amounts of heated material could reduce pot-life so application should occur away from direct sunlight during temperate low humidity conditions for best results.

### APPLICATION:

For the most effective results, an 18" industrial grade roller with a phenolic resin core and 1/8" to 3/8" synthetic nap or lambs-wool cover is recommended. Small chip brushes or 6 - 8" wall edgers can help complete more detailed areas while avoiding puddles created during application process.

### CLEANING:

To ensure equipment longevity, regularly clean all your application tools with the designated cleaner. Inevitably, some product may splatter during use; if this happens be sure to quickly and carefully remove any residue using hot soapy water before it hardens in place - once dried there's no reversing the damage!

### OVERLAPS:

To get the best results with your primer, make sure there is still some tackiness remaining when applying it. If not, you'll need to reapply before continuing on to subsequent layers. Porous surfaces may require extra priming - don't be afraid of giving them a few coats!

### SUGGESTIONS:

Ensure a safe and stable surface by lightly sprinkling the prepped area with aggregate for better traction.

### RESTRICTIONS:

To ensure superior performance, it is important to maintain substrate temperature between 42-86°F (5 - 30 °C) and relative humidity below 85% when applying the coating. Furthermore, surface temperatures must not dip lower than 5.5°F (3 °C) above the dew point detected by your humidity monitor and moisture content of less than 4%. It's also essential that you protect from all forms of condensation or contact with liquid during an initial 24 hour curing period following application on porous surfaces susceptible to a transfer in Humidity levels.

### CHEMICAL RESISTANCE:

Please contact us to get chemical resistance information.

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<b>PACKAGING</b>	2 US gal (11.35 L)	
<b>COLOR</b>	Upon Request	
<b>RECOMMENDED THICKNESS</b>	Primer - 8 MILS (200 ft <sup>2</sup> /gal)	Finish Coat: - over solid color : 6 MILS (266 ft <sup>2</sup> /gal) - over vinyl chips : 10 MILS (160 ft <sup>2</sup> /gal)
<b>SHELF LIFE</b>	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.	
<b>MIX RATIO, BY VOLUME</b>	A:B = 1:1	
<b>MIX RATIO, BY WEIGHT</b>	A:B = 100:82-96	
<b>POT LIFE 16 OZ (454 G)</b>	15 minutes @ 77°F (25°C)	
<b>VOC</b>	0 g/L	

### PROPERTIES

@ 73°F (23°C) AND 50% R.H.

<b>SOLIDS CONTENT, BY VOLUME (CLEAR)</b>	PART A: 93% PART B: 78% MIX: 85%
<b>SOLIDS CONTENT, BY WEIGHT (CLEAR)</b>	PART A: 92% PART B: 75% MIX: 83%
<b>DENSITY (KG/L)</b>	PART A: 1.08 PART B: 1.06 MIX: 1.11
<b>THINNER RECOMMENDED</b>	Xylene
<b>DRYING TIMES</b>	Tack-Free : 1 - 2 hours Recoat Time: 2 hours Foot Traffic: 2 - 4 hours Heavy Equipment Traffic: 24 hours Full Cure: 4 - 7 days
<b>ABRASION RESISTANCE, ASTM D4060 TABER ABRASER CS-17 WHEEL / 1000G (2.2 LBS.) / 1000 CYCLES</b>	30 mg loss
<b>ADHESION, ASTM D4541</b>	Concrete-primer : > 550 psi (substrate ruptures)
<b>WATER ABSORPTION, ASTM D570</b>	0.2 %
<b>WATER VAPOUR TRANSMISSION, ASTM E96</b>	Water procedure B Film 0.01cm (0.004") : 1 perm
<b>HARDNESS (SHORE D), ASTM D2240</b>	75-78
<b>FLEXIBILITY, 1/8" MANDREL, ASTM D1737</b>	Pass
<b>FALLING SAND ABRASION RESISTANCE (L SAND/ 1 DRY MIL), ASTM D968</b>	45
<b>VISCOSITY @ 77°C (25°C)</b>	Part A: 350-450 cps Part B: 75-100 cps A/B Mix: 125-225 cps
<b>GLOSS, ASTM D523</b>	95+

\* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.

\* The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. \*

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<b>FIRE RATING CAN/ULC S102 ESTIMATED ON SIMILAR COATING</b>	Flame spread: 5 Smoke developed: 94
<b>TENSILE STRENGTH, ASTM D638</b>	6500-7500 psi
<b>COMPRESSIVE STRENGTH (PSI MPA), ASTM D695</b>	9500 *W/Quartz: 13700 *W/Chips: 12200
<b>ELONGATION AT BREAK, ASTM D638</b>	100%
<b>TEAR STRENGTH (PLI), ASTM D2240</b>	350

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### HEALTH & SAFETY:

Skin exposure to this product should be immediately washed off with soap and water. If contact is made with the eyes, rinse thoroughly for at least 15 minutes – accompanied by consulting a doctor if necessary. In case of respiratory difficulties due to fumes given off from local exposure, transport victim promptly into fresh air. Contaminated clothing needs immediate removal and washing before reuse– as components A & B present toxic qualities which can cause serious skin or eye irritation when contacted over an extended period of time . Protective safety equipment such as chemical resistant gloves along with NIOSH/MSHA approved filters will help protect from further inhalation hazards seen in vapors released through prolonged exposure; appropriate ventilation aiding against potentially hazardous conditions. For more detailed information on safe handling practices please reference material safety data sheet.

### IMPORTANCE NOTICE:

BallistiX provides accurate technical information and recommendations regarding the designated materials; however, it is up to the user to verify their suitability for a particular application. Testing this product prior to use is recommended as BallistiX takes no responsibility for any damages resulting from its usage.