

TECHNICAL DATA SHEETDESCRIPTION:

AIRDROP is an innovative hybrid polyaspartic coating system designed to provide a decorative and durable finish for commercial/industrial flooring. Boasting aliphatic chemistry, AIRDROP enjoys unparalleled color stability even in the face of UV exposure – offering a level of protection that exceeds its epoxy counterparts. With effortless application via brushing, rolling or spraying at both low temperatures and high humidity conditions, it ensures reliability every time!

ADVANTAGES:

- Lower odor than most polyaspartics
- Cures at temperatures just above freezing
- Can be applied below -20°F (-28.9°C). Will cure with special handling
- Excellent UV resistance, non yellowing and high gloss characteristics
- Excellent color stability
- Achieve a variety of colors, patterns, and logos, using decorative flakes, particles, or signs
- Excellent abrasion and impact resistance
- Micro media traction agents can be introduced into the liquid system or dispersed into the top coat
- Excellent chemical resistance, resistant to skydrol
- Resistant to hot tire peel
- Excellent coefficient of friction properties
- High build capability in lifts of 10 – 12 mils maximum
- Can be matted with a matting agent
- Bonds to virtually all substrates of any dimension, including metals, concrete, and fiberglass
- Tolerant to 300°F (149°C) for random, incidental heat contact

RECOMMENDED USAGE:

- Garage floors
- UV-stable top coat
- Aircraft hangar floors
- Balcony
- Maintenance facilities
- Patio
- Industrial shop floors
- Car washes or wash bays Secondary Containment
- Cooling towers
- Wastewater treatment applications

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PACKAGING	3 US gal (11.35 L)	
COLOR	Upon Request	
RECOMMENDED THICKNESS	Primer - 8 MILS (200 ft ² /gal)	Finish Coat: - over solid color : 6 MILS (266 ft ² /gal) - over vinyl chips : 10 MILS (160 ft ² /gal)
SHELF LIFE	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.	
MIX RATIO, BY VOLUME	A:B = 2:1	
MIX RATIO, BY WEIGHT	A:B = 100:41-48	
POT LIFE 16 OZ (454 G)	15 minutes @ 77°F (25°C)	
VOC	0 g/L	

PROPERTIES

@ 73°F (23°C) AND 50% R.H.

SOLIDS CONTENT, BY VOLUME (CLEAR)	PART A: 93% PART B: 78% MIX: 85%
SOLIDS CONTENT, BY WEIGHT (CLEAR)	PART A: 92% PART B: 75% MIX: 83%
DENSITY (KG/L)	PART A: 1.08 PART B: 1.06 MIX: 1.11
THINNER RECOMMENDED	Xylene
DRYING TIMES	Tack-Free : 1 - 2 hours Recoat Time: 2 hours Foot Traffic: 2 - 4 hours Heavy Equipment Traffic: 24 hours Full Cure: 4 - 7 days
ABRASION RESISTANCE, ASTM D4060 TABER ABRASER CS-17 WHEEL / 1000G (2.2 LBS.) / 1000 CYCLES	30 mg loss
ADHESION, ASTM D4541	Concrete-primer : > 550 psi (substrate ruptures)
WATER ABSORPTION, ASTM D570	0.2 %
WATER VAPOUR TRANSMISSION, ASTM E96	Water procedure B Film 0.01cm (0.004") : 1 perm
HARDNESS (SHORE D), ASTM D2240	75-78
FLEXIBILITY, 1/8" MANDREL, ASTM D1737	Pass
FALLING SAND ABRASION RESISTANCE (L SAND/ 1 DRY MIL), ASTM D968	45
VISCOSITY @ 77°C (25°C)	Part A: 350-450 cps Part B: 75-100 cps A/B Mix: 125-225 cps
GLOSS, ASTM D523	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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FIRE RATING CAN/ULC S102 ESTIMATED ON SIMILAR COATING	Flame spread: 5 Smoke developed: 94
TENSILE STRENGTH, ASTM D638	6500-7500 psi
COMPRESSIVE STRENGTH (PSI MPA), ASTM D695	9500 *W/Quartz: 13700 *W/Chips: 12200
ELONGATION AT BREAK, ASTM D638	100%
TEAR STRENGTH (PLI), ASTM D2240	350

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

SURFACE PREPARATION:

OLD CONCRETE: To ensure the best results for product application, concrete surfaces should be properly prepped and cleaned. BLASTRAC sand blasting or diamond grinding with a 30 grit or coarser stone can effectively remove surface contaminants while leaving the underlying substrate unaffected. Oils and fats must also be removed prior to treatment, which may require acid etching followed by thorough rinsing in order to open pores on the concrete's surface. For optimal performance during applying products, substrates should not exceed relative humidity indications nor contain any chlorides as determined through pH level testing beforehand.

NEW CONCRETE: To ensure superior performance and longevity, concrete should be allowed to cure for a minimum of 30 days. After 28 days, tested compression resistance must exceed 25 MPa (3625 lb/inch²) with traction resistance reaching at least 1,5 MPa (218 lb/in²). To achieve these results appropriate preparation is essential: using BLASTRAC sand blasting or diamond grinding that employs coarse grits such as 30 or less followed by acid etching – all processes requiring thorough rinsing afterwards – combined with the use of primer for optimal out-gassing reduction will help secure strong adhesion.

MIXING INSTRUCTIONS:

To apply the base coat, mix part A and B in a ratio of 2:1. Fill a clean, dry mixing pail with two gallons of part A and one gallon of part B. Add 500mls up to desired pigment before gently stirring; be careful not to over-mix or create any moisture inducing vortexes as this will reduce pot life when temperatures are below dew points. Unlike epoxies however no induction time is required prior to use unless media agents need incorporation afterwards by adding them after complete mixing and heating process have been finished beforehand cautions that large batches tend towards shorter pot times so ensure direct sunlight isn't present at application alongside high levels heat/humidity which can damage mixture's properties on deployment outside optimal conditions.

APPLICATION INSTRUCTIONS:

Ideal for a professional finish, the recommended process is to use an 18" industrial grade phenolic resin core roller with either synthetic nap or lambswool cover. Small chip brushes and 6 – 8" wall edgers can be used along edges or in hard-to-reach areas; however, take care not to create puddles as this could affect your results.

TECHNICAL DATA SHEET**CLEANING:**

To ensure top-notch cleanliness, utilizing a designated cleaner is essential for all application equipment. As the material hardens quickly and can only be removed with mechanical means, it's important to take special caution if any splatters occur – promptly wash thoroughly using hot soapy water for best results.

OVERLAPS:

For best results, ensure your primer is freshly applied and still moist before applying the subsequent overlaps. On porous materials you may need to re-prime after drying or layer multiple coats of primer for a quality finish.

SUGGESTIONS:

Sprinkle the primed area lightly with aggregate to provide better footing.

RESTRICTIONS:

- Minimum/Maximum temperature of substrate: 42°F / 86°F (5°C / 30°C)
- Maximum relative humidity during application and curing: 85 %
- Substrate temperature must be 5.5°F (3°C) above dew point measured
- Humidity content of substrate must be < 4 % when coating is applied
- Do not apply on porous surfaces where a transfer of humidity may occur during application
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period

HEALTH & SAFETY:

To ensure your well-being, take caution in handling this product as it contains toxic components A and B. Prolonged contact with the skin may cause irritation while eye contact should be avoided at all cost to prevent serious burns. In case of skin or eye exposure, rinse thoroughly for a minimum of 15 minutes then consult a doctor immediately. If respiratory difficulties arise from vapors emitted by this product, transport yourself to an area filled with fresh air without delay and consider wearing safety glasses along with chemical resistant gloves if further action is taken on top of ventilation standardization suggested by NIOSH/MSHA approved breathing apparatus filters.

NOTICE:

BallistiX strives to provide accurate technical information on all its materials. However, customers are responsible for verifying the suitability of this data for their individual use and should test any product before applying it. BallistiX does not assume liability in relation to loss or damage caused by improper handling or application of these products.