

ABRACOAT 10B

Technical Data Sheet



ATLAS
POLYMERS

MATERIAL DESCRIPTION

Atlas AbraCoat 10B is an odorless, 100% solids coating system for the protection of surfaces subject to abrasion, erosion and corrosion. AbraCoat 10B is formulated with advanced wear resistant technology while remaining fully sprayable. USDA approved for incidental contact with food.

INTENDED USES

- Scrubbers
- Slurry Lines
- Kort Nozzles
- First Stage Separators
- Water Boxes
- Heat Exchangers
- Valves
- Pumps

STORAGE AND TECHNICAL INFORMATION

Unit Size:..... 1 Kg
Shelf Life:..... 3 Years when stored between 20°F and 86°F
Application Temperature (Ambient): 40°F - 95°F (Ambient)
Mixing Ratio (Volume): 6 Parts Base to 1 Part Hardener
Coverage Rate @ 10-15 Mil: 11 ft² per unit
Volume Capacity:..... 25.7 in³ per unit
VOC:..... 0.0 Lbs/Gal; 0.0 g/L
Sag Resistance: 50 mils

PRODUCT PERFORMANCE

| | | |
|-----------------------------|----------------------------|-------------------|
| Heat Resistance: | 390°F Dry / 200°F Immersed | NACE TM 0174 |
| Compressive Strength (psi): | 13,000 | ASTM D695 |
| Tensile Strength (psi): | 5,300 | ASTM D4541 |
| Flexural Strength (psi): | 10,200 | ASTM D790 |
| Hardness: | 86 Shore D | ASTM D2240 |
| Impact Resistance: | 1.2 ft-lb/in | ASTM D4226 |
| Taber Abrasion (H-10) Wet: | 7 mm ³ | 1000 Cycle - 1 KG |
| Taber Abrasion (CS-17) Dry: | 5 mm ³ | 1000 Cycle - 1 KG |

CURE SCHEDULE

| Service / Temperature | 41°F | 59°F | 77°F | 86°F | 90°F |
|--------------------------------|---------|---------|---------|---------|---------|
| Pot Life | 1 hr | 45 mins | 30 mins | 20 mins | 10 mins |
| Light Traffic | 12 hrs | 5 hrs | 3 hrs | 2 hrs | 1 hr |
| Heavy Traffic | 7 days | 48 hrs | 4 hrs | 15 hrs | 11 hrs |
| Full Cure (Chemical Immersion) | 10 days | 3 days | 36 hrs | 20 hrs | 20 hrs |

CHEMICAL RESISTANCE *EX = 30 Days @ 72°F

| | | | | | |
|-------------------|-----|-----------------|-----|----------|-----|
| 20% Ammonia | Ex* | Mineral Spirits | Ex* | Benzene | Ex* |
| Lime Water | Ex* | Methyl Acetate | Ex* | Diesel | Ex* |
| 10% Sulfuric Acid | Ex* | Diethanolamine | Ex* | Oil | Ex* |
| Motor Oil | Ex* | Diesel Fuel | Ex* | Kerosene | Ex* |

TECHNICAL SUPPORT

AbraCoat 10B is backed with technical support from staff engineers, certified coatings inspectors, research laboratories and personnel 24 hours a day 7 days a week.
Call (786) 312-1231

MADE IN THE USA

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Material Application Guidelines



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SURFACE PREPARATION

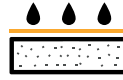
Surfaces to which Atlas AbraCoat 10B is to be applied must be clean firm and dry. Any contamination such as rust, mill scale, dust, oils, grease, fats, waxes, laitance and other coatings/sealers must be removed and/or washed prior to the application of AbraCoat 10B.

- Surfaces should be abraded through mechanical means to provide a surface profile of CSP-3 to 5 for concrete and NACE No. 2 / SSPC-SP 10 for metals. Metallic substrates should also have a surface profile of at least 3 mils. The surface roughness of a 3 mil profile is roughly equivalent to the feel of 60-grit sandpaper or coarser.
- For hard surfaces where grit blasting or grinding will not yield the desired surface profile, tack weld an open mesh screen or expanded metal approximately 1/16 to 1/8 inch above the surface.
- Please note that any surface irregularities should be properly addressed prior to the application of AbraCoat 10B. Also, please note that waxes, oils or greases should be removed with water and soap. Solvent such as acetone or MEK will not remove them.



MIXING

1. To mix Atlas AbraCoat 10B measure a 6:1 mixing ratio or empty entire contents onto a clean mixing board.
2. Mix thoroughly with a putty knife until the mixture becomes a uniform color (about 2 minutes).
3. Pour contents into a clean container and mix again.
4. Using a heavy duty slow speed drill and a jiffy mixer is recommended for mixing large quantities.
5. Mixing at temperatures below 41°F may be difficult. It is recommended that the Base and Hardener be heated to a temperature between 68°F and 77°F in a hot water bath prior to mixing in order to ease the mixing process.
6. Ensure correct mixing. Poor mixing will result in soft spots, poor curing and loss of physical properties.



APPLICATION

- Atlas AbraCoat 10B may be applied with a brush, squeegee or airless sprayer. Recommended spray equipment is a 68:1 airless sprayer with reverse-a-clean tips, orifice size of 0.017" – 0.023". Trace heated lines should also be used with this equipment setup.
- Apply AbraCoat 10B at a thickness of 10 ± 2 mil per coat.
- Multiple coats can be applied within 4 hours of the previous coat @ 75°F. If this time is exceeded, the material will need to be washed with soapy water and sanded.
- Although Atlas AbraCoat 10B can be applied in a single coat, it is strongly recommended that application be carried out in two 10 mil coats to prevent film discontinuities known as pin-holes.



CLEAN-UP AND CONSIDERATIONS

Clean Atlas AbraCoat 10B from tools with isopropyl alcohol, acetone or mineral spirits. This should only be done before it has hardened. The only way to remove AbraCoat 10B is through mechanical abrasion or grit-blasting.

Once fully cured AbraCoat 10B may be cleaned with commercial and industrial cleaners. Always rinse with clean water after cleaning. Aggressive cleaning chemicals should not be left standing over for longer than 3 hours.



SAFETY & WARRANTY

Atlas AbraCoat 10B is an epoxy resin system. Please refer to the Material Safety Data Sheets prior to using this product. Do not weld on or near the Hardener epoxy, hazardous fumes will be released.

Atlas Polymers, Corp. guarantees this product will meet the performance claims stated herein when material is stored and used as instructed in this document. Atlas Polymers further guarantees that all its products are carefully manufactured to ensure the highest quality possible and tested strictly in accordance with universally recognized standards. Since Atlas Polymers has no control over the use of the product described herein, no warranty for any application can be given.

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