

ABRALOX 10A

Technical Data Sheet



ATLAS
POLYMERS

MATERIAL DESCRIPTION

Atlas Abralox 10A is an odorless, 100% solids rebuild & resurface grade system for machinery and structures. Abralox 10A is engineered with ceramic particles to extend the life of equipment and structures from aggressive abrasion caused by all particle sizes. USDA approved for incidental contact with food.

INTENDED USES

- Pump Casings
- Slurry Lines
- Pipe Elbows
- Cyclones
- Fan Housing & Hoppers
- Pulverizes
- AR Plate replacement
- Any area subject to high abrasive wear

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) 2 Parts Base to 1 Part Hardener
 Coverage Rate @ 1/4" 110 in² (0.69 ft²) per unit
 Volume Capacity 27 in³ per unit
 VOC 0.0 Lbs/Gal; 0.0 g/L
 Consistency Trowelable Mortar
 Available Colors Gray, Red

PRODUCT PERFORMANCE

Heat Resistance:	350 °F Dry / 300 °F Immersed	NACE TM 0174
Compressive Strength (psi):	14,000	ASTM D695
Tensile Strength (psi):	3,000	ASTM D638
Flexural Strength (psi):	6,500	ASTM D790
Hardness:	90 Shore D	ASTM D2240
Impact Resistance:	6.3 ft-lb/in	ASTM D4226
Abrasion Resistance:	0.5 % Weight Loss under high velocity sliding particle	

CURE SCHEDULE

Service / Temperature	41 °F	59 °F	77 °F	86 °F	90 °F
Pot Life	45 mins	30 mins	20 mins	15 mins	12 mins
Light Traffic	24 hrs	8 hrs	3 hrs	2 hrs	1 hr
Heavy Traffic	7 days	4 days	1 day	1 day	16 hrs
Full Cure (Chemical Immersion)	14 days	7 days	2 days	36 hrs	24 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

Abralox 10A 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



SURFACE PREPARATION

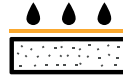
Surfaces to which Atlas Abralox 10A is to be applied must be clean firm and dry. Any contamination such as rust, mill scale, dust, oils, grease, fats, waxes, laitance and other coatings/sealers must be removed and or washed prior to the application of Abralox 10A.

- 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 equal to 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 Abralox 10A. 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 Abralox 10A measure a 2:1 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 mixing paddle 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 easy the mixing process
6. Ensure correct mixing. Poor mixing will result in soft spots, poor curing and loss of physical properties.



APPLICATION

1. Apply the Atlas Abralox 10A directly on to the prepared surface with a spatula or putty knife.
2. Press down firmly to fill the surface profile, cracks, remove entrapped air and increase adhesion.
3. Abralox 10A can be applied at a finished thickness of at least 1/8", but may be built to 1" or more.
4. In the case that an additional layer of any other Atlas product is to be applied over Abralox 10A, it should be applied as soon as possible after the first layer and no later than 2 hours at 70 °F.



CLEAN-UP AND CONSIDERATIONS

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

Once fully cured Abralox 10A 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 Abralox 10A 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.