

TOUGH-SEAL

100



SYSTEM DESCRIPTION

The Tough-Seal 100 sealer system is designed for use over concrete, acid stained surfaces and various types of architectural concrete in high-traffic environments. It's especially suitable over acid stained concrete because it is unaffected by pH drifts that can impact the adhesion of other types of sealer systems.

When used over acid stains or integrally colored concrete, Tough-Seal 100 gives color enhancement similar to solvent acrylic sealers. When used as a finish coat in vehicle areas, it resists tire tracking and provides easy soil release. The use of special solvents and adhesion promoters gives this material excellent penetration and adhesion to minimally profiled concrete.

Tough-Seal 100 is UV stable and offers unmatched chemical and abrasion resistance. A special version of this material is available to meet the 100 grams/liter VOC limit in California.

SYSTEM USES

Tough-Seal 100 is designed for interior or exterior conventional and architectural concrete.

FEATURES & BENEFITS

- Chemical resistant
- Abrasion resistant
- Impact resistant
- Low-VOC formulation qualifies for LEED projects
- Available in a satin finish
- Exceptional exterior durability

COLORS

Tough-Seal 100 is available in clear with gloss or satin finish.

SURFACE PREPARATION

Surface must be clean, dry and profiled prior to installation. Acceptable methods for preparation are diamond grinding or acid etching. If acid etching, follow APF written instructions. Concrete must have a minimum surface profile ICRI CSP 1, or a texture similar to 150 grit sand paper.

PRODUCTS

- Polyurethane 250
- Polyurethane 250 VOC
- Polyurethane 100
- Polyurethane 100 VOC

PHYSICAL PROPERTIES

Gloss (60 degrees):	90
Gloss (satin material, 60 degrees):	50-60
Hardness (Sward):	30
Flexibility (ASTM D-222):	passes 1/8 inch
Impact Resistance (ASTM D-2794):	passes 3/8 inch-pounds direct impact
Tabor Abrasion (1000 gm. Load, 1000 cycles, CS 17 wheel):	33 mg. loss
Adhesion to Concrete (ASTM 451):	concrete fails before loss of bond
Volatile Organic Compounds (Regular Formulation):	400 grams/liter
Volatile Organic Compounds (Low VOC Formulation):	100 grams/liter

CHEMICAL RESISTANCE

Refer to Arizona Polymer Flooring Chemical Resistance Guide for full system chemical resistance.

CONCRETE MOISTURE

Calcium chloride in accordance with ASTM-F1869 or relative humidity probe testing in accordance with ASTM-F2170. In the event that test results in 3 pounds per 1000 sq. ft. per 24 hours, or 80% relative humidity, please refer to Arizona Polymer Flooring VaporSolve product information or go to www.vaporsolve.com.

INSTALLATION

Please refer to Tough-Seal 100 installation guidelines for information and instructions.

WARRANTY

Arizona Polymer Flooring guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. ARIZONA POLYMER FLOORING MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Arizona Polymer Flooring shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.