

# Tough-Seal 100 Sealer System

SYSTEM DATASHEET

## 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.

## FEATURES & BENEFITS

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

## PRODUCTS

- SK-P250
- SK-P250 VOC
- SK-P100
- SK-P100 VOC

## SYSTEM USES

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

## COLORS

Tough-Seal 100 Sealer System is available in Clear with gloss or satin finish.

## 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 D 451	Concrete fails before loss of bond
Volatile Organic Compounds (Regular formulation)	400 grams/liter
Volatile Organic Compounds (Low VOC formulation)	100 grams/liter

## 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 sandpaper.

## CHEMICAL RESISTANCE

Please refer to the Arizona Polymer Flooring Chemical Resistance Guide for fully system chemical resistance.

## INSTALLATION

Please refer to the *Tough-Seal 100 Sealer System Application Instructions* for information on installing this system.

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## MOISTURE VAPOR EMISSIONS PRECAUTIONS:

All concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride testing in compliance with ASTM F1869, or relative humidity probe testing in compliance with ASTM-F2170, to determine if excessive levels of vapor emissions are present before applying any coatings. Arizona Polymer Flooring offers **S-1300 Pene-Krete®** for cementitious overlay products and **VaporSolve® Moisture Remediation** systems for resinous floor coatings. Consult our technical service department. Arizona Polymer Flooring and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

## 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 damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. 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.

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