

# Sure-Tough ST 7039

## APPLIED POLYMER SOLUTIONS, LLC

### PRODUCT PROFILE

**GENERIC DESCRIPTION** **CONCRETE DENSIFIER & WATERPROOFER** - a one component water based silicate and lithium based solution designed to densify and add waterproofing characteristics to cement and concrete substrates. The densifier reacts with the cementitious ingredients to densify and add water repellency while allowing deep penetration to chemically harden and fortify the substrate. After the chemical reaction occurs, the substrate will be more abrasion resistant and help protect the surface from wear, moisture and efflorescence while remaining breathable.

**BENEFITS OF USE** Concrete sidewalks, drives or floors:

- \* Increases durability by improving resistance to freeze thaw effects and improves abrasion resistance and durability.
- \* Improves weathering, densifies and reduces efflorescence of natural stone, precast stone and cement.
- \* Protects and fortifies concrete as it seals against moisture damage.
- \* Application will reduce dusting and increase concrete life.
- \* Reduces water absorption into the substrate.

**COLORS** Clear to a White opaque emulsion - will not change the color of the concrete.

### CHARACTERISTICS/FINISHES

**SURFACE** Normally, this product does not change the overall appearance of the substrate. After the material is applied and allowed to dry for 24 hours, it will not be readily apparent that the application has occurred, except the concrete will be fortified and strengthened.

**PRIMERS** None required. If applying multiple coats, a wet edge should be maintained. If the ST 7039 dries between applications, water spotting may result.

**TOPCOATS/FINISHES** None required. Multiple coats of this product are compatible (see information under primer).

### TECHNICAL SPECIFICATIONS

**VOC** Water-based material with no VOC's.

**RECOMMENDED THICKNESS** Apply until surface is saturated without puddles. Can be applied by any suitable method such as spraying or mopping etc.

**ABRASION RESISTANCE** The application of this product will increase the abrasion resistance of most substrates. Results will vary according to substrate type.

**ADHESION** Because this material becomes an integral part of the surface that is coated and does not form an impermeable barrier, delaminations do not occur.

PACKAGING	Size	Part A	Coverage (1,604/WFT) x gallons
	1 gallon kit	1 gallon	When the surface is fully saturated, coverage will depend on the absorptivity of the substrate resulting in 100 to 400 square feet per gallon coverage.
	5 gallon kit	5 gallon	
	50 gallon kit	50 gallon	

**STORAGE TEMP** 65°F - 85°F (18°C - 30°C) in a dry area. Avoid excessive heat and freezing.

**SHELF LIFE** 6 months in an unopened container

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### SURFACE PREPARATION

**SURFACE** All dirt, oil, dust, foreign contaminants and sealers must be removed to assure a trouble free application. This product will work on a wide variety of substrates but a test patch should be placed prior to undertaking the application. The surface to be treated should be dry and should remain dry for a twenty-four hour period after the application. Prepare surface by: abrasive blasting, acid etching, solvent degreasing, caustic soda scrubbing, or high-pressure washing. If strong acidic or alkaline cleaning agents are used, neutralize the surface and remove all residue before application. Always apply a test patch to insure product suitability.

### APPLICATION

**MIXING** Stir material before using.

**THICKNESS** Stir material before using. Apply material to the horizontal surface without thinning with a brush, mop or spraying equipment. When applying the material, always maintain a wet edge as this will reduce any chance of water spotting. When spraying, this product can damage vegetation, stain or etch glass, aluminum, metal and plastic. If contamination does occur, rinse it off with water immediately. If a white precipitate should form due to high acid content, or second coating, rinsing with water and a stiff broom will usually be able to remove the spotting. Since NP7936 densifier does not totally seal pores, water can still evaporate from the underlying surface. However, if capillary water is traveling toward the treated face, some of it will be stopped at the depth to which the NP7936 has penetrated. At this point it will evaporate, passing through the treated area as water vapor. This normally will present no problem. However, if the capillary water source contains soluble salts, they will be deposited at this point within the substrate where this water evaporates. In essence, this reduces visible efflorescence but there is this danger: If capillary water deposits excessive amounts of soluble salts, their crystalline growth can develop sufficient pressure resulting in spalling. Spalling may also result from substantial pressures of water freezing behind the face of the surface before evaporation can occur. These conditions both develop from outside sources of water. This product is developed to prevent the migration of water beneath the treated surface while still allowing water vapor to escape. Applications of this material will prevent positive side absorption of water and improve the capability of the substrate to resist spalling. Although the material will strengthen the substrate, outside sources of water may cause problems if the hydrostatic pressure is sufficiently great. After the product has been in contact with the substrate to allow for penetration and reaction, excess material can be removed by water or allowed to dry.

**RECOAT/TOPCOAT** Normally one coat is all that is required. It is best to make a second pass when desired while the substrate is still wet. Avoid overlapping wet to dry as this can cause water spotting because the product will not be able to penetrate a dry area that was treated as well as in an area that has been treated but not yet dried.

**CLEAN UP** Citrus based cleaners or any suitable detergent and water.

**FLOOR CLEANING** Caution! Although very unlikely, some cleaners may affect the color of the treated surface. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

### LIMITATIONS

\* Substrate temperature must be 5 degrees F above dew point.

\*This product is not intended for use as a decorative coating or where color stability or visual appearance is of any significant importance. Its sole purpose is as a protective coating.

\*If a topcoat of a different color is to be used, multiple coats will be necessary to prevent bleed-through (discoloration)

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### LIMITATIONS

**Warranty & Limitations of Seller's Liability:** Applied Polymer Solutions, LLC warrants only that our materials represented herein meet the formulation standards or Applied Polymer Solutions, LLC.

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