

## GENIX POTASSIUM SILICATE

Hydrophobic, Inorganic Densifying Sealant for Direct-To-Concrete Application

**Description:** Eco-CorFlex's GENIX Potassium Silicate is a single-component sealant specifically formulated for densifying, hardening and protecting concrete, natural stone, and low-fired clay products (brick, pavers). GENIX is for direct-to-substrate application, providing a powerful defense against water, salt, salt alternatives, staining, wear & erosion, extending the life of concrete, natural stone, and masonry surfaces. It chemically bonds with the substrate and is "non-film forming". Perfect for industrial & residential applications.

**Areas of Usage:** GENIX is suitable for application on architectural concrete, concrete block, split face block, pavers, stucco, porous and dense brick, clay tile, terra cotta and exposed aggregate concrete. It's ideal for workshops, warehouses, retail spaces, driveways, patios, walkways, and more.

<b>Features / Advantages:</b>	Single-component sealant	Fills substrate pores & densifies
	Deep substrate penetration	Enhances substrate hardness
	Breathable, non-film forming	Dries quickly
	Water, salt, mold repellent	Impact, abrasion & water resistant
	Eco-friendly & odorless	Molecularly bonds to substrate
	Preserves substrate's natural appearance (no gloss or shine)	Perfect for both horizontal & vertical, interior & exterior substrates

**Surface Preparation:** Allow new concrete to cure for at least 30 days prior to preparation and coating. Test for moisture. **GENIX must only be applied to untreated substrates; the product is not intended for surfaces with prior treatments or coatings.** Remove dust, oil, grease, curing compounds, scale and other contaminants. Prepare substrate with floor machine or pressure washer (with surface cleaner attachment). A diamond grinder may be used to prepare concrete if there is an existing sealant or coating, and/or significant substrate contamination. Allow the surface to completely dry before commencing application of GENIX.

**Technical Data:** Note: Data / results may differ due to statistical variations, mixing methods and equipment, temperature, application methods, actual site conditions and curing conditions

**Packaging:** GENIX is provided in 2-gallon containers.

**Mixing Ratio:** GENIX is a single component product and is **provided in concentrated form**. It must therefore be diluted with purified (or tap) water prior to use in a 1:9 ratio. That is, **add 1 part GENIX to 9 parts water**.

**Application:** Apply using standard low-pressure pumping equipment with fan-type spray nozzle. Have an 18" roller (with 3/8" nap) at the ready to mitigate puddling. Acceptable for use on both horizontals and verticals. (See "Application Procedure" on page 3 for details). A 2-gallon container of Genix (once diluted) can cover a minimum of 4000 sq ft.

**Average Dry Time:** Dry times vary depending upon weather conditions. GENIX is a fast-curing product; "beading effect" occurs after ½ hour @ 70°F. Protect against rain for at least 4 hours following application.

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<b>Technical Data (Cont.):</b>	<i>Data / results may differ due to statistical variations, mixing methods and equipment, temperature, application methods, actual site conditions and curing conditions</i>
Description:	Concrete densifiers are liquid chemical treatments applied to concrete (and other) surfaces to increase surface hardness, density, and durability. They do so by reacting with the calcium hydroxide in the concrete to form calcium silicate hydrate (C-S-H), the compound responsible for concrete's strength.
Reducing:	GENIX is <b>provided in concentrated form</b> . Dilute with water prior to use in a 1:9 ratio (i.e., add 9 parts purified or tap water to 1 part GENIX).
Finish:	No gloss or shine; GENIX preserves the substrates natural appearance
Colors:	Clear, colorless
% Solids (Vol):	Water-based, 55 wt% active ingredient
Pigment Type:	Not applicable
pH:	13 (highly alkaline)
UV Stability:	Stable (based on QUV test)
Flexural Strength:	N/A
Volatile Content:	0g VOC
Thickness:	GENIX penetrates the substrate and is non-film forming (no millage).
Compressive Strength:	Densifiers don't significantly affect the core compressive strength of concrete (the inherent load-bearing capability of the material itself). Compressive strength is largely determined by the concrete mix, curing process, and aggregate quality.
Surface Hardness	Densifiers improve surface durability and resistance to abrasion, making the top layer more resilient to wear and tear. This is why densifiers are commonly used in polished concrete applications or high-traffic areas.
Tabor Abrasion (CS17 Wheel):	N/A
Pot Life:	N/A
Shelf Life:	12 months at 77°F (25°C) if stored in originally sealed containers.

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**Mixing:** GENIX is a single-component system. It is provided in concentrated form and therefore must be diluted with purified or tap water prior to use. Thoroughly mix the GENIX concentrate first, ensuring uniformity. Then, dilute GENIX in a 1:9 ratio (**add 1 part GENIX to 9 parts water**). Mix thoroughly.

**Application Procedure:** GENIX is a quick-drying sealant for use by trained applicators. This product must be applied to untreated substrates only (a "water test" should be performed). The product is not intended for surfaces with prior treatments or coatings. *Glass, wood, plastic and metal cannot be treated with this product.* The surfaces to be treated should be air-dry and clean. Dust, grease, oil, must be cleaned off before treatment (refer to "Surface Preparation" on page 1). *Before application, ensure the environment is well-ventilated, the temperature of the substrate within 40°F to 90°F, and peripheries (including shrubs) are well protected from overspray; GENIX is highly alkaline.* GENIX should be applied using low pressure pumping equipment with a fan-type spray nozzle. Have an 18" roller (with 3/8" nap) at the ready to mitigate puddling. Protect against rain after application for at least 4 hours.

**Handling & Storage:** Store in a cool, dry, well-ventilated area. Keep containers tightly closed.

**• KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • INDUSTRIAL GRADE • HANDLING & INSTALLATION MUST BE PERFORMED BY ECO-CORFLEX-CERTIFIED APPLICATORS ONLY •**

All information provided by Eco-CorFlex concerning its products, including but not limited to, any recommendations and advice relating to the application and use, is given in good faith based on Eco-CorFlex's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Eco-CorFlex SOPs. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Eco-CorFlex's control are such that Eco-CorFlex assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of Eco-CorFlex product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application. Eco-CorFlex reserves the right to change the properties of its products without notice.

Prior to each use of any Eco-CorFlex product, the user must read and follow the warnings and instructions on the products most current Technical Data Sheet, product label and Material Safety Data Sheet which are available online at [www.ecocorflex.com](http://www.ecocorflex.com) or by calling Eco-CorFlex at 866-406-2628. Eco-CorFlex warrants this product to be free of manufacturing defects and warrants this product to meet the technical properties on the current Technical Data Sheet if used as directed within the shelf life. The user must determine suitability of each product for its intended use and assumes all risks. The buyer's sole remedy shall be limited to the purchase price or replacement of the product *exclusive of labor or cost of labor*.

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