

POLYMER MODIFIED STAMPABLE CONCRETE TOPPING

Introduction

The **GRANITOP-S** System is a cement based polymer modified high performance stampable concrete overlayment system designed to be used as a floor topping for vehicular and pedestrian areas as well as a repair material for stamped concrete surface defects.

Where to use

GRANITOP-S is used as a hard-wearing overlay system on existing floors where texturing with stamping tools is desired. Granitop-S therefore eliminates the need to remove existing pavements, while providing an attractive and durable stamped concrete finish. **GRANITOP-S** is integrally colored, and can be used with Antique Release agent for achieving an antiqued look, or with Liquid Release for a uniform color appearance when texturing with stamping tools. **GRANITOP-S** may also be chemically stained for additional antiquing effects. Adding different color aggregates to **GRANITOP-S** will provide a stronger mix and a non-slip surface.

Features & Benefits

- Dry to foot traffic after 24 hours.
- Resistant to abrasion.
- Perfect bonding to concrete substrates.
- Can be applied in wide areas.
- Shrinkage compensation system
- provides longterm dimensional stability.
- Resistant to water and freeze thaw cycles.

Limitations

GRANITOP-S must be applied over structurally sound and non-moving surfaces. All joints in the existing substrate

must be extended through the full depth of the **GRANITOP-S** Stamp overlay by saw cutting , allowing for the simultaneous expansion and contraction of the substrate and the **GRANITOP-S** Stamp overlay.



Cracks or joints in the existing substrate will reflect through the **GRANITOP-S** Stamp overlay. As in all flooring applications, the surface must be sealed for stain protection once the surface has cured for a minimum of 24 hours . If the **GRANITOP-S** Stamp topping is to be chemically stained, it must be allowed to cure for a minimum of seven days.

GRANITOP-S Stamp was designed and formulated to be textured with stamping tools. Aggregates can be added to the mix to provide a granulated finish. Do not apply in areas subject to negative hydrostatic pressure or metal-wheeled vehicular traffic. Do not apply if ambient temperature is expected to drop below 7°C during installation or in the proceeding

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48 hours, or if rain is expected in the proceeding 24 hour period after application. Do not mix or apply when ambient temperature exceeds 40°C.

Substrate Preparation

All bases must be fully cured, sufficiently rigid, and clean of any surface contamination such as oil, dirt, grease, coatings, curing compounds, and laitance that may prevent good adhesion.

Dense, smooth surfaces, and those retaining excessive amount of form release agent can cause delamination from the base. Any painted or coated surfaces should be sandblasted, grinded, and/or pressure washed to remove existing coatings. Use of detergents or soap is not recommended as they may leave a film that can cause bonding failure.



Surrounding areas should be covered and protected from material spills and equipment contact. Rope off work area. Cracks should be filled with a patching compound such as Crack Filler. However, it should be noted that some cracks might

be moving cracks and could therefore cause reflective cracking in the **GRANITOP-S** Stamp layer. Any surface imperfections or holes should be patched with Patching Compound and allowed to cure for a minimum of 24 hours. It is recommended to water the surface of the concrete prior to application in order to prevent excessive drying.

Mixing

Mixing should be done with a drill mounted jiffy-type mixer at low speeds. Always add clean potable water first. Mixing duration should last for at least four minutes to insure proper color and material dispersion within mix.

Application

Application temperatures should be between 5°C and 25°C. **GRANITOP-S**



can be applied in thicknesses ranging from featheredge to 15 mm. Minimum thickness will depend on the profile of the texturing mat design selected. A minimum of 3 mm in addition to the maximum stamping tool profile is required . Use a

Granitop-S

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gauge rake spreader to place the material, then follow lightly with a Fresno. Do not over trowel. All mixed material must be used immediately.

Once the **GRANITOP-S** Stamp overlay has stiffened enough to support stamping operations, but is plastic enough to allow for texturing, the surface may be imprinted with texturing mats. Timing is critical for proper texturing of the surface. Imprinting too early in the curing process of **GRANITOP-S** Stamp will cause the tool to sink into the surface, while imprinting when the topping has hardened excessively will prevent the full details of the texturing tool to be transferred to the surface.

The topping must be left to cure for at least 24 hours before the excess release agent is swept using a soft broom and the surface cleaned using a pressure washer. longer curing time would be required under cooler temperatures and more humid conditions. The surface should be allowed to fully dry before application of a sealer coat. Control joints may be saw-cut into the topping after it has been allowed to cure for at least 12 hours.

Curing

Do not water cure . **GRANITOP-S** Stamp is self curing. Floor cures in about 16 hours after installation at 21°C, and the surface may be opened to light foot traffic at least 72 hours after installation. Area may be opened to regular traffic seven days after installation depending on prevailing site conditions.

Storage & Shelf Life

Keep material covered and off the ground to prevent exposure to moisture. Store in

a dry, covered area away from direct sunlight. Under recommended storage conditions and when stored in original unopened packaging, expected shelf life is 24 months from the date of purchase .

Coverage

Coverage will vary depending on substrate surface profile, required depth of installation, surface finish and preparation method. Typical coverage rate is approximately 2 square meters per 35 kg bag at 10 mm thicknesses.

