

TECHNICAL DATA SHEET

GES-100 SC

PRODUCT DESCRIPTION

GES-100 SC is a voc-compliant, high solids, 2-component and de-signed as a base coat for color flake (chip) flooring. This application can be applied to new and existing concrete. GES-100 S formula provides excellent adhesion and hide to concrete in a singl coat application. GES-100 SC withstands up to 9 lbs of sture Vapor Emissions when applied to residential garage floors u to 1,000 SQFT. GES-100 SC adheres to damp or dry concrete and give ample open time for broadcasting the color flakes (chips).

AVAILABLE COLORS

- Clear
- · Light Gray
- Medium Gray · Dark Gray
- White
- Black

PRODUCT DATA

	Volumetric Ratio	2 to
	Solids	100%(+/- 1%
9	Coverage	200-225 sqft/gal. at 8 m
р		or thicker if desired
S	Pigmented Base Coat	8-10 mil
	Color Flake Coat	4-6 mil
	Application Temperature	55°-90°
	Thinning	Not Required
	Pot Life	5 min
	Working Time on Floor	30-40 mir
	Cure Time	1.5-2 hrs (walking
		10-12 hrs(light traffic
	Full Cure	5 day

- Garage floors
- Clean rooms
- Manufacturing facilities
- Commercial kitchens

Grocery Stores

- Kennels
- Laboratories Basements

APPLICATIONS

- · Automotive showrooms Restrooms
 - Locker rooms Aisle ways

• Tile Red

Safety Red

Safety Blue

Safety Green

Safety Yellow

ADVANTAGES

(After full cure surface MUST be sanded prior to next coat.)

- Fast turn around, Fast Cure
- prepared substrate

Critical Re-Coat Time

USDA Food & Beverage

Shelf Life

- Self-priming over properly
- · Lifetime adhesion warranty VOC Compliant
- Withstands up to 9
 - lbs of Moisture Vapor Emissions

12 hrs

12 month

Meets Req.

- · Chemically resistant Essentially odorless
- Low viscosity

PROPERTY

Compressive Strength Flexural Strength Tensile Strength **Bond to Concrete** Taber Abrasion Flammability Hardness, Shore D Flash Point

VALUE

10,800 psi 11,700 psi 8900 psi 350 psi 75-80 Mgs Self-extinguishing

>200°F

ASTM C 695 ASTM D 790 ASTM D 638 ASTM D 4541 (Concrete fails at this point) **ASTM D 4060**

REFERENCE

ASTM D 2240



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CONCRETE PREPERATION

Before coating is applied, concrete must be:

- Dry No wet areas
- Clean Contaminants removed
- Profiled Surface must be diamond ground to a CSP (Concrete
- Surface Profile) rating of "2". Roughly the feel of 100 Grit Sandpaper.
- Sound All cracks and spalled areas repaired Note: Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting, diamond grinding,

carifying and scab-bling are all acceptable methods.

REPAIR CRACKS

Voids, cracks and imperfections will be seen in finished coating if the concrete is not patched correctly. Joint Filler (Crack Repair) and/ or Rapid Mender to fill cracks and imperfections. After the materials are cured, diamond grind patch. If another patching materialis used, contact a Glacier Epoxy Supply for a compatible and approved alternative

MOISTURE VAPOR EMISSIONS WARNING

All concrete floors without effective moisture vapor barrier are subject to possible moisture vapor transmission that may cause blistering and failure of the coating system. It is the applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine vapor emissions prior to applying any coating. coating king can supply moisture remediation products MVB15 (MOISTURE VAPOR BARRIER) that are up to 15 lbs. coating king, sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

APPLICATION INSTRUCTIONS

Application of GES-100 SC for a nominal 8 to 16 mil coating system is applied in one coat.

- 1. Always apply in descending temperatures. Concrete is porous and traps air. In ascending temperatures (generally mornings) the air expands and can cause out gassing in the coating. It is safer to apply coatings in the late afternoon, especially for exterior applications.
- 2. Optimum ambient temperature should be between 55-90°F during application. Note: Cure times are affected by ambient and slab temperatures. Temperatures of 55°F and lower can slow cure times. Temperatures of 85°F and higher will speed up working and times. 3. Mix 2gal kit of GES-100 SC using above mixing instructions. 4. Apply approximately 200 SF per gallon by immediately pouring out on surface in a ribbon, while walking and pouring at the same time until bucket is empty.
- 5. Using a metal smoother squeegee on a pole, pull GES-100 SC over substrate. As a coat over bare concrete, pull resin as thin as possible while still wetting out concrete and uniformly covering surface. This allows trapped air to escape more easily.
 - 6. Using a 3/8" non-shedding phenolic (plastic) core paint roller, roll coating forwards and backwards.
 - 7. Lastly, back roll in the opposite direction as step 6.
- 8. NOTE: GES-100 SC is specifically designed to be a "Primer Coat" epoxy only, and will always need to be covered over by a full broad-cast or another coat of standard 100% Solids Pigmented Epoxy or Pigmented Sealer coat.

PACKAGING

2 GALLON KITS PART A 1.33 GAL 0.67 GAL PART B

15 GALLON KITS 10 GAL PART A 5 GAL PART B



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CLEAN UP

GES-100 SC, while in an un-reacted state, may be cleaned up with hot Chip Broadcast water and degreaser. Isopropyl alcohol or acetone may be needed once the resin begins hardening.

SPECIAL NOTE

ALL Epoxies manufactured by Glacier Epoxy Supply are NOT UV stable not warranted. and can and WILL amber and discolor when exposed to UV light.

MIXING

The ratio of GES-100 SC is 2 to 1. That is, two parts A (resin) to one part B (hardener). Mix the following with a drill and mixing paddle.

Note: If using a drill mixer, use a low speed (not to exceed 300 rpm) to prevent air entrapment.

- 1. Premix 1.33 gallon of Part A for 30-45 seconds.
- 2. Add 0.67 gallon of Part B into 2gal pail (Part A) and mix for another 60-90 seconds.
- 3. GES-100 SC is designed to be immediately poured on the floor. The Pot life is less than 2 minutes. Once poured out on the floor, 15-20 minutes of working time can generally be expected.

CHIP/SILICA SAND **BROADCAST INSTRUCTIONS**

- 1. Following Step 6 above. Broadcast Color Chips/Micro Chips (at 10 to 12 lbs. per 100 sq. ft.) by tossing them into the air and allowing them togently rain down into the wet resin.
- 2. Anything less then FULL BROADCAST NOT RECOMMENDED. And
- 3. Allow to cure. Then scrape the basecoat with a drywall scraper in all directions. Vacuum small pieces and dust. Silica Sand Broadcast
- . Following Step 6 above, gently throw the silica sand up into the air allowing it to fall without lumping in one spot or moving the resin. Do this until the floor is totally saturated with the silica sand and the resin will not accept any more. This generally requires 1/2 to 3/4 lbs. per sq. ft. Allow to dry for 2- 4 hours.
- 2. Sweep floor and stone any high spots.
- 3. Application of sealer coat will vary GREATLY in SQFT per gallon depending on the type of coating you go over. Consult coating king to advise you on best coverage rates.

WARNING! SLIP AND FALL PRECAUTIONS

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slipresistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Glacier Epoxy Supply recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Glacier Epoxy Supply will not be responsible for injury incurred in a slip and fall accident.

Handling Precautions

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended.

WARRANTY

Glacier Epoxy Supply products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification.

