

QUALIFICATIONS

Only skilled contractors who are trained, experienced and familiar with two part coating systems should use this product. Contractor must thoroughly read tech data sheet, label, application instructions and MSDS prior to application. In order to ensure maximum product performance and adhesion, it is recommended that a test area be applied prior to final installation. Preparation/application requirements are affected by many variables – contact manufacturer if there are any further questions prior to commencing application of the products.

PREPARATION

Contractor should inspect surface to determine what preparation should be used to achieve the proper profile. Surface must be thoroughly clean, dry and in sound condition. All oil, dirt, dust, rust, grease and other contaminants must be removed prior to application in order to ensure optimal adhesion.

Perform a Calcium Chloride Test per ASTM F1869-98 to determine the rate of moisture vapor emission. Levels of 4 lbs and higher may require a moisture vapor barrier. Consult the manufacturer.

Repair all structural defects and fill all voids, marks, protrusions or rough edges to provide a smooth, continuous surface finish. Floor patch may be used. Contact manufacturer for compatible systems.

It is recommended that a test patch be laid to ensure product compatibility, adhesion, color, resistance and desired finish on the surface.

Primer: *GCR 42* is to be applied to new and old concrete once the surface is thoroughly cleaned and inspected. Follow all mixing and application instructions.

Concrete: Surface preparation should be referred to SSPC-SP13/NACE 6. Surface should be clean, dry and in sound condition with a sufficient profile in order to achieve optimal adhesion.

All new concrete must be cured a minimum of 28 days.

All form release agents, salts, laitance, curing compounds, efflorescence and other contaminants must be thoroughly removed by shot-blasting, sandblasting, scarification or etching.

Any grease, oils or other contaminants must also be removed. Refer to ASTM D4260, D4259, and D4258. A moisture reading must be checked - refer to ASTM D4263. Perform a Calcium Chloride Test per ASTM F1869-98 to determine the rate of moisture vapor emission.

All surfaces must be thoroughly dry prior to application.

A surface filler or floor patch may be required to create a more desirable application for leveling concrete. Filler should be thoroughly dry before applying the coating.

Surface temperatures must be at least 50 degrees F.

Final pH should be between 6.0 and 9.0 prior to application.

Masonry: Surface temperature must be at least 50 degrees F before painting. All masonry must be free of moisture, oil, dirt, dust, grease, loose paint, mortar and other contaminants. Poured, tilt-up or troweled concrete, plaster, mortar, etc. must be thoroughly cured at least 30 days.

Form release compounds, weathered masonry, soft or porous cement board and other curing membranes must be removed.

Final pH must be between 6.0 and 9.0.

Abrasive blasting and industrial detergents may be necessary to properly prepare the surface.

Fill all voids and bug holes with an appropriate filler.

Iron & Steel: Remove all oil and grease from surface by Solvent Cleaning SSPC-SP1. For optimal surface preparation, use Near White Metal Blasting Cleaning per SSPC-SP10. Blast clean to a surface profile of 2 mils. Minimum surface preparation is Commercial Blast Cleaning SSPC-SP6.

Prime the clean, blasted surfaces within 12 hours.

Painted Surfaces: Clean previously painted surface of all contaminants. Lightly abrade the surface. Apply a test area allowing the coating to dry fully before testing adhesion.

If adhesion is poor, abrade the area, or if necessary, remove the previous coating. Once removed, refer to the previously listed preparation instructions for new concrete.

APPLICATION

Equipment:

Power Mixer: Jiffy Mixer powered by air or electric motor.

Roller: 3/8" nap, non-shed with phenolic core

Squeegee: 3/16" v-notched

Spike or Loop Roller

Airless Spray: Equipment that has 28:1 or higher pump ratio and a fluid tip with 0.019 orifice. Verify.

Manufacturer: Graco Bulldog 3301

Changes in pressure and tip size may be needed for proper spray characteristics.

IMPORTANT: Additional information will require equipment manufacturer's recommendation. Utilize proper OSHA safety standards for applications in confined areas. Proper methods to protect over spraying should be implemented. Atomized particles will adhere to most surfaces and are extremely difficult to remove. Do not allow material to dry onto surface, skin or hair.

Application Conditions:

Temperature (air, surface): 50°F - 90°F

Material: 55°F-85°F maximum

Relative Humidity: 80% maximum

NOTE: Temperature, humidity and exposure to direct sunlight affect pot life and dry time.

Mixing:

Mix Part B (base) for approximately 2 minutes with Jiffy blade at slow speed (250 rpm) to fully disperse the product. Make sure to scrape the sides of the container frequently.

Pour Part A (Activator) into Part B and mix for 3-4 minutes. Make sure to empty all of the contents from Part B.

Important: Mark time to establish pot life. Pot life is 50 minutes depending on humidity and temperature. Discard material after 2.0 hours. Clean equipment with solvents.

Product should not be mixed with other products or other containers of **GCR 2/10**. Do not mix partial kits!

Note: This coating is self-leveling and will slide if the floor surface is not level. To ensure a level surface, either increase the mil thickness or apply a flooring patch prior to application of the coating.

INSTALLATION

Once the coating is thoroughly mixed, pour enough material out of the container onto the floor and spread the coating with a roller or squeegee. Work the coating onto the surface and roll out to a thickness of 14 to 30 wet mils. Do not exceed 40 wet mils. (Refer to engineer's drawings).

Check film thickness. Stripe coat all welds, crevices and sharp angles to prevent early failure in these areas.

Material should be rolled out with a spiked roller after 20 minutes into setup to assist in out-gassing trapped air. Do not spike roll after 35 minutes.

If texture is required, broadcast vinyl chips or quartz onto the rolled coating. Broadcast in spiked shoes immediately after coating has been applied. Then topcoat with **GCR 3** Clear Top Coat or broadcast slip resistant texture (30 – 50 mesh) onto the **GCR 42** Primer once it has been applied. In each case, screen and sweep the excess chips, quartz or sand.

When topcoating with the **GCR 2/10**, reduce the mils thickness to achieve a slip-resistant texture. If using a roller, be sure to back roll immediately - coating sets up quickly and pulls easily.

When applying two (2) coats, allow 6 hours between coats or until coating is tack free.

CLEAN UP AND SAFETY

Clean equipment **immediately** with solvents. Do not allow catalyzed material to stay in hoses beyond pot life. Clean material on skin and hair immediately with industrial soap and water.

Precautions:

Please read Material Safety Data Sheets (MSDS) carefully. Use only with adequate ventilation. Prevent breathing of spray mists. In confined areas, wear a properly fitted respirator during application until all vapor and spray mists are gone. Protect eyes and skin. Do not take internally. Do not use if you have had a prior reaction to epoxy resin.

KEEP OUT OF REACH OF CHILDREN!

MAINTENANCE

Now that you have applied GCR Floor product(s), it is important that you carefully follow these maintenance instructions in order to maximize the benefits of using them:

General Cleaning

To maintain your floor, use a damp mop, sponge or towel, and a mild dish soap or ammonia-based product.

Never use harsh chemicals, strippers, abrasives, cleaning liquids such as Mop&Glo or any liquid or paste wax. Do not buff. Contact the manufacturer for any further questions regarding the care of your floor system.

WARRANTY

The liability of the Manufacturer and/or Distributor to the Buyer or a third party, for any lost or damages, whether direct or otherwise arising out of the purchase of product from Seller by Buyer shall not exceed the total amount billed and billable to the Buyer of the Product hereunder.

In no event will Manufacturer and Seller be liable for any loss of profits or other special consequential damages, even if Seller has been advised of the possibility of such damages.

The foregoing limitation on liabilities is in lieu of all other warranties expressed or implied including, but not limited to, those concerning merchantability and fitness for a particular purpose. For any further questions, contact Genesis Coatings at (800) 533-4273.