



GCR™ 3

Clear Topcoat

GCR 1-2-3 Floor System is Patent Pending



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PRODUCT DESCRIPTION

GCR 3 Clear Topcoat is a non-immersible, high performance, zero VOC, aliphatic polyurethane coating that provides a continuous high or low gloss finish, thus eliminating the need to strip, wax and buff floors. This system is easily maintained through normal good housekeeping procedures and is re-coatable and repairable to change or restore the original appearance. No more need for machines or harsh chemicals - just a damp mop. **GCR 3** can be used as a low maintenance system exhibiting high wear. GCR 3 can be used along with our **GCR 2 Base Coat** and broadcast media system to create new, beautiful seamless floors.

- Flexible
- Odorless
- Chemical & Stain Resistant
- Durable
- ADA, FDA, Green Compliant
- Easy to use and affordable
- Zero VOC
- Non-flammable
- High Gloss or Satin Finish

Intended Uses:

- Vinyl Composition Tile
- Rubber Flooring and Vinyl Base Cove
- Wood and Concrete
- Hospitals and Assisted Living
- Institutions and Schools
- Processing, Pharmaceutical Facilities
- Transportation: Trains, Buses, Planes
- Hotels and Apartment Complexes
- Federal Housing
- Commercial and Industrial Properties

PRODUCT CHARACTERISTICS

Finish: Clear Gloss or Satin (satin available for concrete applic only)

Stripper: GCR 1 (VCT, rubber – floor scrubber suggested)

Primer: Concrete applications use Masonry Conditioner (call manufacturer for details)

VOC: 0 g/L

Flash Point: Non-flammable

Mix Ratio: Pre-measured kits with water reducer included

Mils Thickness: 2-4 dry mils (DFT)

Pot Life: 1.5 hours @ 70°F/Accelerated: 30 to 45 minutes

Drying Schedule 5 mils @ 50% RH:

Temp/Humidity Dependent – can vary in colder conditions

To Touch: 4-8 HRS

Tack Free: 6-8 HRS

Dry Hard: 12-24 HRS

Full Cure: 3 DAYS

Storage: 12 month shelf life, if stored unopened at 45°F-70°F (re-inspect after 1 year). Keep from freezing or prolonged exposure to sunlight and heat.

Reducer: 16.9 oz pre-packaged reducer is included with the 1 unit kit. For reduction on other sizes, contact manufacturer.

ASTM TEST RESULTS

Abrasion ASTM D4060 (taber) 1000 gr.load, 1000 cycles = 23-30 mg loss

Adhesion ASTM D3359 = 5A, D4541 = 440 psi

Average Critical Radiant Flux ASTM E648 = 0.78

Coefficient of Friction ASTM D2047 (*dry/wet*): Concrete 0.70/0.80, Tile (with anti-slip) 0.90/0.78, VCT 0.68/0.84, Rubber 0.72/0.92

ASTM C1028: Concrete 0.80/0.68, VCT 0.80/0.68, Rubber 0.92/0.80

Color and Gloss Retention (gloss@60°angle) = >90°

Loss ASTM D523 <10%, Color Loss ASTM D2244 <1.1

Direct Impact Resistance ASTM D2794 (direct/reverse) = >160 in./lb

Dry Heat Resistance ASTM D2485 = 180°F

Elongation ASTM D522 / Result = >30%

Flammability ASTM D635 = Self-Extinguishing

Flexibility ASTM D4145 / Result = Passes

Flexural Strength ASTM C580 = 4,200 psi

Hardness ASTM D3363 = 2H-3H

Hot Tire Pick Up ASTM @ 140°F = TBD

Salt Spray ASTM B117 (2000 hours/metal) = passes

Scrub Resistance ASTM D2486 = 1,000-5,000 cycles

Smoke Emissions ASTM E662 = Passes

Solvent Resistance (MEK double rubs) ASTM D4752 = 100

Water Absorption ASTM C413 = 0.2%, ASTM D570 = 0.04%

PRODUCT SYSTEM OPTIONS / COMPATABILITY

<u>SURFACE</u>	<u>GCR1</u>	<u>GCR2</u>	<u>GCR3</u>	<u>CHIPS/QUARTZ</u>
New VCT	YES	NO	YES	
Old/Damaged VCT/VAT	YES	YES	YES	OPTIONAL
Rubber Flooring	YES	NO	YES	
Concrete	YES	YES	YES	OPTIONAL
Wood	NO	NO	YES	
Ceramic Tile (*)	YES	NO	YES	

(*) Apply test area for adhesion and desired appearance. The above table outlines product compatibility and suggested product use. Uses may vary from application to application. Please contact manufacturer to ensure the appropriate products are being used.

PACKAGING INFORMATION

All kits are pre-measured and shortfilled by *weight*. Kits yield the published coverage rates but may vary depending on application method and porosity of surface. Testing will establish coverage rates:

<u>Kit Size</u>	<u>Activator</u>	<u>Base</u>	<u>Case Qty</u>
Sm Repair	½ Pint Tin	Pint Tin	6
Lg Repair	Pint Tin	Quart Tin	5
1 Unit	Quart Tin	Gallon Pail	3
4 Unit	Gallon Tin	5 Gallon Pail	n/a

This product is classified as Shipping Class 55.

THEORETICAL COVERAGE RATES

Spread rate is dependent on application method, substrate and anticipated level of use. Below figures are for estimation purposes only. Testing should be completed for accurate figures. Application loss factor is not covered due to surface profile, porosity, application technique, surface irregularities, spillage, climatic conditions or film build:

<u>Surface</u>	<u>Ft²/Unit Kit</u>	<u>Ft²/Repair Kit (sm/lq)</u>	<u># Coats</u>
VCT	350	10-15 / 80-85	1-2
Rubber	350	10-15 / 80-85	1-2
Wood	300	10-15 / 80-85	2
Concrete	300	10-15 / 80-85	1-2

CHEMICAL RESISTANCE

Resistance to fumes, splash and spillage, not immersion (ASTM 3912): Acetone, Ammonium Hydroxide, Butyl Cellosolve, Cellosolve Acetate, Ethyl Alcohol, Hyjet #3, Isopropyl Alcohol, MEK, Methyl Alcohol, Perchloroethylene, Phosphoric Acid 35%, Potassium Hydroxide, Skydrol 500 A&B, Sodium Chloride, Toluene, Urine, Xylene

CONTACT INFORMATION

For further technical questions or warranty issues, please contact Genesis Coatings at (800) 533-4273.