

PRODUCT DESCRIPTION

SIMIRON Polygrout is a patented two-component hybrid polyurea/polyurethane designed for filling the pours, pinholes, pitting, cracks, scratches and gouges to enhance the over appearance of polished concrete. When **Polygrout** is applied to concrete it create a permanent densification that will not breakdown like conventional inorganic densifiers. Polygrout's high solids allow voids in the concrete floor to be permanently filled creating a higher gloss and depth of image of the finished polished floor. **Polygrout** can be used on polished concrete or terrazzo floors. Blends with the concrete aggregate to create an aesthetically finished floor.

FEATURES & BENEFITS

- Low Viscosity
- Grindable in 1 hour
- Good Moisture Resistance
- No Odor
- Creates a denser floor
- Improves Gloss
- Improves Depth of Image
- Walkable in 20 min
- Available in multiple colors

RECOMMENDED USES

- Polished Concrete
- Terrazzo Floors
- Cementitious Terazzo
- Self-leveling overlays.
- Concrete Micro-toppings

TECHNICAL DATA

PHYSICAL PERFORMANCE PROPERTIES

Colors	Use Simiron Polytint Color Packs	
Pot Life	72°F, 45% R.H.	5 – 7 min
Working Time	72°F, 45% R.H.	15 – 20 min on floor
Tack-Free Time	72°F, 45% R.H.	20 min
Grindable	72°F, 45% R.H.	60 min
Hardness, Shore D	ASTM 2240	75 D
Strength	ASTM C579	6,500 psi
Tear Strength	ASTM D624	285 lbs/ft
Tensile Strength	ASTM D638	4,500 psi
Adhesion	ASTM D4541	>300 psi
Elongation	ASTM D638	3%
VOC Content	EPA Test Method 24	<50g/L
Mix Ratio by Volume	1:1 parts by volume	
Odor	ASTM D1296	Minimal
Shrinkage	ASTM C531	Negligible
Viscosity	Brookfield LVT	175 cPs

PACKAGING

- Size
- 2 Gal Kit
 - 10 Gal Kit

LIMITATIONS

- Do not apply on damp or wet surfaces
- May exhibit color change if exposed to high UV
- Blend with sand if surface defects are greater than 1/2"
- More than one coat may be required depending on surface conditions

SURFACE PREPARATION

Concrete surface should be ground with initial course grits and taken up to a 80/100 metal bond finish. Remove non structurally bonded concrete chips or spalls.

For best results run floor scrubber dry with just aggressive stiff brushes to loosen up any dust that may be embedded into the surface defects and voids then completely vacuum the entire floor. It is not recommended to run a wet scrubber because the concrete slurry could fill into the voids preventing the **Polygrout** to properly work. Be sure there is no standing moisture in any of the voids because it may cause the material to foam.

It is recommended that the least aggressive diamond tooling possible, such as 50 grit hybrid ceramics or transitional pad, to avoid opening up the concrete to additional pours, holes or voids.

POPOUTS, VOIDS OR SPALLS

Pop outs, cracks or voids larger than 1/2" should be repaired by mixing sand with the **Polygrout** or by using **Simiron 850CF**.

RANDOM CRACKS

Cracks wider than 1/8" should be cleaned using a crack chasing blade, wire brush or Nylox wheel. Vacuum cracks out entirely and prefill using **Polygrout** before coating the entire floor to ensure a flush repair.

JOINTS

Joint should be cleaned and repaired using **Simiron 860JF**.

COVERAGE

500 – 1,000 square feet per gallon.

Coverage will vary with the condition of the floor, application method, profile and porosity of the surface.

COLOR PACKS — POLYTINT PACKS

Polygrout is designed to work with **Simiron Polytints**. For two-gallon kit sizes mix in the two gallon **Polytint** pack and for 10 gal kits mix in the 10 gal **Polytint** pack. Be sure to mix the **Polytint** into the Part B "Polyol" side first for 2-3 minutes using a mechanical mixer at low speed to prevent air entrapment.

MIXING

Only mix enough material that can be applied in a 10-15-minute window. **Polygrout** is a 1 to 1 mix ratio by volume. Mix **Polytint** into Part B for 2-3 minutes and then mix Part A 1 to 1 by volume with Part B for 45 – 60 sec at low speed using a mechanical mixer and jiffy mixing blade. Be sure material is thoroughly mixed. Mixing longer than 60 seconds can cause material to catalyze faster and reduce working time. Immediately pour material onto the floor after mixing.

APPLICATION

APPLICATION TEMPERATURE CONDITIONS	
Air	35°F – 95°F
Surface	35°F – 95°F
Material	60°F – 75°F

*Cooler air, surface and material temperatures and/or lower humidity can slow down the working and cure time. Warmer air, surface and material temperatures and/or higher humidity can speed up the working and time.

APPLYING

Pour the mixed material onto the floor and spread using a flat and smooth metal blade, ridged trowel, flat stiff squeegee or window squeegee. Spread the material and then overlap the coated area a second time to be sure all voids are filled in both directions. Closely look for areas that may have not been filled and pass over again. In some circumstances a second coat may be needed to fill voids in flush.

CURING

In standard conditions at 75°F and 45% R.H. surface can be walked on in 20 minutes and ready for grind in 1 hour. Cooler temperatures and/or lower humidity can slow down the cure time and warmer temperatures and/or higher humidity can speed up the cure time. It is always best to test a small area to determine that the material is ready to grind off. Trying to remove material that hasn't fully cured may build up residue on diamonds pads and smear.

CLEAN UP

Use ketone solvents or other suitable materials for cleaning. Be sure to follow the manufactures safety guidelines for use.

CLEANUP

Use ketone solvents or other suitable cleaning solvent

TECHNICAL ASSISTANCE

Information is available by calling SIMIRON:
Toll Free: 1.866.515.8775 / Telephone: +1.248.686.3600



Corporate Office
SIMIRON
32700 Industrial Drive
Madison Heights, MI 48071
(248) 686-3600 / (866) 515-8775

SHELF LIFE AND STORAGE

Store product in tightly sealed containers at normal room temperatures between 60 - 75°F in a dry area. Keep away from sparks.

Shelf life is one year when stored in proper conditions.

DISPOSAL

Be sure to follow all local, state and federal regulations when disposing of materials.

TECHNICAL & SAFETY LITERATURE

Refer to SDS sheet before use. Safety precautions must be strictly followed during storage, handling and use.

To acquire additional information or technical and safety literature, please visit:
www.simiron.com

LIMITED WARRANTY

SIMIRON warrants this product to be free from defect in the material that affects its performance for a period of 10 years (from date of purchase). SIMIRON will replace at no charge the quantity of the Coating that SIMIRON determines has failed to perform, as the sole and exclusive remedy for any breach of this warranty and/or any other defect or failure of the coating. Proof of purchase is required. Cost of labor for application of any product specifically is excluded.

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