



SPECIALIZED INDUSTRIAL MATERIALS

## Product Data Sheet

### **SIM Grout™ Restore** Epoxy Concrete Restoration & Re-Build

**Product Description- Sim Grout™ Restore** is a specially formulated, 100% solids, epoxy concrete restoration and re-build product designed to repair heavily damaged concrete or reconstruct areas where a quicker turn around or improved chemical resistance is necessary.

**Uses- Sim Grout™ Restore** is ideal for areas where traditional cementitious products are inadequate due to hydration requirements, length of cure time, lack of chemical resistance, or lower compression and flexural strength. **Sim Grout™ Restore** can be formed, molded or shaped, making it ideal for vertical installation, reconstruction of key features, repair of damaged concrete or new construction.

#### Ideal for Applications in:

- Pump pads
- Extensive concrete repair
- Chemical troughs
- High traffic areas
- High impact areas
- Curbs
- Fillets

#### Advantages:

- Non-shrink
- 100% solids
- Convenient packaging
- Specially formulated aggregate
- High compressive & flexural strength
- Good chemical resistance

#### Physical Properties-

<b>(Typical) Mix Ratio 3:1</b>		
<b>Cured Film Properties</b>	<b>Test Method</b>	<b>Typical Value</b>
Solids content	Theoretical	100%
Compressive strength	ASTM C579	8000 – 10000 psi
Tensile strength	ASTM C307	4000 – 5000 psi
Flexural strength	ASTM C580	6000 – 7000 psi
Density		125 lbs/cu ft
Working time	72°F to 75°F	20 – 30 minutes
Cure time (floor traffic)	72°F to 75°F	8 – 12 hours
Chemical service	72°F to 75°F	24 – 36 hours
Coefficient of thermal expansion	ASTM C531	20 x 10 <sup>-6</sup> in/in°F

The value ranges stated in this Technical Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.

**Packaging- SIM Grout™ Restore** is available in kits that yield approximately 25 or 40 square feet. Aggregate is specifically blended for use in **SIM Grout™ Restore**. Theoretical coverage is as follows:

Cubic Ft. Coverage	Sq. Ft. Coverage	Thickness	Part A	Part B	Aggregate
3.125	25	1/8"	.5 gallon	.19 gallon	(1) 20 lb bag & (1) 5 lb bag
5	40	1/8"	.75 gallon	.25 gallon	(1) 50 lb bag

Coverage rates will be affected by the condition of the surface being coated and skill of the applicator. Containers are packaged at ratio for 25 or 40 square feet and will not arrive full.

## **Application Guidelines-**

### **Temperature Considerations:**

- Throughout the application process the surface temperature should remain above 50°F.
- Store all materials (parts 'A' & 'B' and aggregate) at 60°F - 80°F.

### **Surface Preparation of Concrete:**

- Surface must be free of dirt, dust, oil, grease, chemical and other contaminants immediately prior to applying **SIM Grout™Restore**.
- New concrete should be cured a minimum of 28 days.
- Concrete must be structurally sound and must not contain any accelerators or curing compounds.
- Remove all surface laitance and exposed sound concrete. Abrasive cleaning recommended.
- Any existing coating should be completely removed.
- Honeycomb and form voids on vertical surfaces may be filled using **SIM Grout™Restore**.

#### **Priming:**

- **SIM Grout™Restore** requires the use of a primer. This step is necessary to achieve adhesion between the substrate and the blended aggregate filled epoxy being applied.

### **Mixing & Application:**

- Required Tools-Jiffy type mixer & trowel
- Combine units of 'A' & 'B' into the provided 3.5 gallon pail and mix with jiffy type mixer.
- Add 20 lbs. of blended aggregate and mix until all particles are wet and composition is uniform.
- Slowly start adding from the remaining 5 lb bag of blended aggregate until desired thickness is achieved.
- Be aware that the provided 25 lbs. of blended aggregate may not all be required as viscosity will vary according to temperature.

Basic safety for personal protection is:

- Long sleeve overalls or disposable Tyvex overalls
- Rubber gloves
- Splash shield or safety glasses with splash guards
- Rubber or leather boots
- Respirator
- Do not use near high heat or open flame
- Do not take internally
- Keep out of reach of children

**Shelf Life-** One year from date of shipment, in original, unopened factory containers, under normal storage conditions of 60°F to 95°F (18°-35°C).

**Technical Services-** Sales and Customer Support 866-944-4495

**Warranty-Specialized Industrial Materials, LLC** will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product of its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any changes or expenses of any nature incurred without its written consent.