

RockHardscp® Structural Product Data Sheet

RockHardscp Structural is a four component, high strength, 100% solids, thermosetting poly-matrix-oligomeric compound used to support structural components in all types of foundations and grouting applications. **RockHardscp Structural** exhibits extremely high physical properties and negligible shrinkage and is chemically resistant.

RockHardscp Structural resin carries the **U.S. Green Building Council LEED's** certification.

SolidCast Polymer Structural Grout displays the following outstanding features & benefits:

- High strength
- Fast Curing
- High impact resistance
- Excellent vibration resistance
- Superior resistance to a wide range of chemicals & oils
- Excellent flowability
- Fast setting & fast curing
- Good UV stability
- Pre-packaged SCP unit/kit
- Strong bond to metal, concrete, and fiberglass composites
- Superior resistance to fatigue

RockHardscp Structural can be used in cast-in-place and grouting applications where corrosion, heavy loads, high impact, and vibrations are a factor. These applications include:

- Anchor Bolts
- Floors
- Compressors
- Generators
- Pumps
- Building Columns & Beams
- Utility Poles

RockHardscp Structural contains no Hazardous Air Pollutants (HAP), Volatile Organic Compounds (VOC), or Styrene. There are no reactive diluents which could

interfere with the curing mechanism or which could cause material loss during or after cure. Anchoring components may be positioned at their final elevation and alignment before pouring. Critical alignments are maintained during machinery operation due to **RockHardscp Structural** high dimensional stability and resistance to creep and vibration.

RockHardscp Structural may be mixed in a two (2) cubic foot portable, electric mixer. It is crucial to thoroughly mix catalyst (Part A) into resin (Part B) before mixing in fillers (Part C1 & C2). Slowly add filler until thoroughly mixed. Do not whip air into mix. Depending of the flowability required, the filler content may be varied accordingly. **RockHardscp Structural** can also be mixed in smaller quantities by using a portable electric drill, such as a Bosch 10.5 amp motor, 1,260 rpm, variable speed, 7/8" torque drill. Contact the **RockHardscp Structural** representative or SolidCast Polymer Technology before reducing the filler.

Curing:

For ambient temperatures between 55°F and 70°F (13°C and 21°C) completely empty all packaged components (resin, catalyst, filler) during the mixing process.

Maximum cure times represent the amount of time required to produce ultimate compressive strength. Additional curing and higher strengths will be achieved over time.

PLEASE NOTE: RockHardscp Structural cure rates and flowability is reduced at low temperature (below 55°F). All packaged components (resin, catalyst, filler) must be stored in ambient conditions, between 55°F and 70°F, for at least 24 hours prior to use. It is ideal to keep **RockHardscp Structural** materials in a dry and well-protected area until the job site is fully prepared for mixing and placement. Do not store materials in direct sunlight.

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RockHardscp Structural TYPICAL PHYSICAL PROPERTIES

Compressive Strength:	12,000+ psi
Flamespread Rating:	Class A (I)
Flexural Strength:	3,400 psi
Flexural Modulus of Elasticity:	5.65 x 10 ⁵ psi
Linear Shrinkage:	Not measurable
Pot Life:	45 minutes
Density:	144 lbs./cu. ft.
Tensile Strength:	1,250 psi
Shelf Life:	6 months (unopened)

SolidCast Polymer Structural Small Unit

Packaging: (Each unit/kit covers approx. 1.61 cu. ft.)

Resin (Part A):	(1) / 32 lb. Pail
Catalyst (Part B):	(3) / .16 lb. Bottles
C-I-P Agg. (Part C):	(2) / 50 lb. Bags
#67 Agg. (Part D):	(2) / 50 lb. Bags

SolidCast Polymer™ Structural Large

Unit Packaging: (Each unit/kit covers approx. 8 cu. ft.)

Resin (Part A):	(1) / 160 lb. Drum
Catalyst (Part B):	(1) / 2.4 lb. Bottle
C-I-P Agg. (Part C):	(1) / 500 lb. Bag
#67 Agg. (Part D):	(1) / 500 lb. Bag

Mixing Procedures:

Thoroughly mix 1/32 lb. (Part A) pail of resin with 3/.16 lb. bottles of Catalyst (Part B). Mix

in 2/50 lb. bags of Cast-In-Place Aggregate (Part C) and 2/50 lb. bags of #67 Aggregate (Part D) until fillers are completed wetted out. Cast-in-place or Grout RockHardscp™ Structural.



Before using read and follow the SDS guidelines precautions and first aid directions carefully.

Use this reference as a guide only. The information is believed to be reliable, but no guarantee is made nor do we assume liability in connection with its use.

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