

RR&C Deep Pour Structural Grout Aggregate

SELECTION & SPECIFICATION DATA

Type	Structural Epoxy Grout
Description	RR&C Deep Pour Structural Grout Aggregate is a versatile three-component epoxy grouting compound. It is designed for grouting machine bases and other equipment or load bearing bases where it is vital to retain exact alignment or where vibration or shock could cause equipment to break loose from weaker grouts. It is ideal for applications which require low shrinkage, high strength grout that is also chemical resistant.
Features	<ul style="list-style-type: none"> • No shrinkage, expansion or distortion • May be placed in 0.75 to 12 inches (20 to 300 mm) lifts • 2-hour long work life at 70°F (21°C) • Over 6,000 psi (41 MPa) compressive strength in 18 hours at 70°F (21°C)
Uses	<p>Restoring and protecting Portland cement concrete structures such as:</p> <ul style="list-style-type: none"> <li style="width: 50%;">• Beams <li style="width: 50%;">• Columns <li style="width: 50%;">• Bases <li style="width: 50%;">• Pads <li style="width: 50%;">• Floors <li style="width: 50%;">• Piers <li style="width: 50%;">• Foundations <li style="width: 50%;">• Piles <li style="width: 50%;">• Footings <li style="width: 50%;">• Pedestals <p>Grouting base plates of rotating and reciprocating machinery such as:</p> <ul style="list-style-type: none"> <li style="width: 50%;">• Ball mills <li style="width: 50%;">• Pumps <li style="width: 50%;">• Blowers <li style="width: 50%;">• Mixers <li style="width: 50%;">• Centrifuges <li style="width: 50%;">• Generators <li style="width: 50%;">• Crushers <li style="width: 50%;">• Stamping machines <li style="width: 50%;">• Compressors <li style="width: 50%;">• Paper mill machines

SUBSTRATES & SURFACE PREPARATION

All	Substrate must be clean, dry and free of contaminants.
Concrete or Concrete Masonry Units (CMU)	<p>Old concrete: contact surfaces, including saw cuts, should be roughened and clean from oils, grease, dirt and loose, disintegrated or unsound concrete. Exposed rebar should be free from loose rust.</p> <p>New concrete: must be cured 7 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete.</p>
Primer	RR&C Concrete Epoxy Primer

MIXING & THINNING

Mixing	Pour can of resin into clean, dry mixing vessel. Slowly add can of hardener to resin and power mix thoroughly. Slowly add bag of filler and mechanically mix until filler is thoroughly wetted. Up to 7.5 lb of filler may be held back from each bag to enhance flow characteristics.
Thinning	Do not thin.
Ratio	<p>By weight, 1.0 resin: 0.17 hardener: 7.7 filler or 1.0 part mixed resin and hardener: 6.6 parts filler</p> <p>Where higher flow characteristics are required, reduce filler loading to 1.0 resin: 0.17 hardener: 6.7 filler by weight or 1.0 part mixed resin and hardener: 5.8 parts filler.</p>
Work Life	<p>2 hours at 70°F (21°C)</p> <p>Work life is shorter at higher temperatures. A larger volume of mixed material will have a shorter work life than a smaller volume.</p>

APPLICATION GUIDELINES

Temperatures	RR&C Deep Pour Structural Grout Aggregate is formulated for ideal handling at 70°F (21°C). Materials and substrate should be acclimated to the air temperature prior to installation, and the air temperature should be between 50°F (10°C) and 90°F (32°C) during installation and cure.
Casting	Seal gaps in formwork tightly. Line formwork completely to prevent grout from adhering.

Cleanup Xylene or MEK

CURE TIME

TEMPERATURE	INITIAL SET	FULL CURE
70°F (21°C)	8 hours	5 days

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PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
DPSGR-CASE-SW	RR&C Deep Pour Structural Grout Aggregate	Part A - Resin, Gray - 1 gallon
DPSGH-CASE-CASE-SW	RR&C Deep Pour Structural Grout Aggregate	Part B - Hardener - 1 quart

Components sold separately. Order 4 bags of aggregate per unit.

Theoretical Coverage A 276 lb unit yields 2.09 cubic feet of grout.
 Allow 132 mixed lb/ft³ (2,114 kg/m³) of volume.
 Allow 16.5 mixed lb/ft² (80 kg/m²) when casting as a 1.5-inch (38 mm) overlay and 11.0 mixed lb/ft² (54 kg/m²) as a 1.0-inch (25 mm) overlay.
 Allow for loss in mixing and placement.
 Yield will be reduced when filler loading is reduced.

Storage & Shelf Life Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.
 If there is any question with respect to the quality of the components check reactivity prior to use. For assistance consult with Sherwin-Williams.

SAFETY

Safety Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

TEST METHOD	RESULTS
Color	Gray
Density, ASTM C138	132 lb/ft ³ (2,114 kg/m ³)
Compressive strength, ASTM C579	>14,500 psi (100 MPa)
Tensile strength, ASTM C190	>1,450 psi (10 MPa)
Shrinkage, ASTM C531	0.14%
Absorption, ASTM C413	0.33%
Coefficient of thermal expansion, 75°F - 210°F (24°C - 99°C) ASTM C531	22 x 10 ⁻⁶ /°F (39.6 x 10 ⁻⁶ /°C)
Minimum application thickness	0.75 inches (20 mm)
Strength gain over time, 70°F (21°C)	18 hours 6,300 psi (44 MPa) 24 hours 8,250 psi (57 MPa) 30 hours 10,400 psi (72 MPa) 48 hours 12,600 psi (87 MPa)

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