

### SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Concrete Repair Grout Material
<b>Description</b>	Grout shall be epoxy based material supplied with an appropriate hardener and graded silica aggregate as manufactured by Dudick Inc. Installation shall be in accordance with the manufacturer's recommended practices.
<b>Typical Uses</b>	<ul style="list-style-type: none"> <li>• Hydraulic Presses</li> <li>• Blowers</li> <li>• Gas, Diesel and Steam Engines</li> <li>• Refrigeration Units</li> <li>• Paper Mill Machinery</li> <li>• Pumps</li> <li>• Compressors</li> <li>• Bridge Seats</li> <li>• Building Columns</li> <li>• Printing Presses</li> <li>• Lathes</li> <li>• Forges</li> <li>• Milling Machines</li> <li>• Turbines</li> <li>• Generators</li> <li>• Crushers</li> <li>• Rolling Mills</li> <li>• Stamping Presses</li> </ul>
<b>Primer</b>	Primer 67: The prepared concrete surface must be primed to provide the "wetting out" required for good bonding. Polymer Quartz can be applied while the primer is tacky. Do not allow primer to puddle.
<b>Chemical Resistance</b>	Dudick Grout formulation provides a broad range of resistance to acidic and caustic chemicals, including organic and inorganic substances, oils and salts.

### SUBSTRATES & SURFACE PREPARATION

<b>Concrete</b>	Concrete: Concrete must be prepared mechanically to remove surface laitance. Oils, grease and other contaminant must be removed prior to surface preparation. Concrete must be free of curing compounds and form release agents. Surface texture should be similar to 40-60 grit sandpaper or the visual standard, CSP-5 from the International Concrete Repair Institute with exposed pea gravel. The prepared surface should have a nominal tensile strength of 250 PSI per ASTM D-4541.
<b>Metal</b>	<p>Metal: Metal surfaces such as equipment bases, sole plates, oil pans, braces or leveling feet which the grout will rest on, or be embedded in, must be free of grease, oil, rust and scale. Where maximum adhesion is required, the contact areas should be abrasive-blasted to a white metal finish to achieve a minimum 2.0 mil profile.</p> <p>Metal surfaces which are not to be bonded to should be masked or waxed with a generous coat of good quality automotive or floor paste wax.</p>

# Polymer Quartz

## PRODUCT DATA SHEET



## PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	Results
Bond Strength to Concrete ASTM D-7234	Greater than cohesive strength of concrete
Coefficient of Expansion ASTM C-531	12-15 x 10 <sup>-6</sup> in. / in. / °F
Compressive Strength ASTM C-579	11,000 PSI
Linear Shrinkage ASTM D-2566	.001 in. / in.
Shear Strength to Steel	2,220 PSI
Tensile Strength ASTM C-307	2,400 PSI

## MIXING & THINNING

Mixing	Each .5 cubic unit consists of: (1) pail of resin liquid (1) can of the correct hardener (1) bag of grout aggregate When mixed, they will result in 5 cu. ft. of grout
	Each 1.6 cubic unit consists of: (1) pail of resin liquid (1) can of the correct hardener (4) bags of grout aggregate When mixed, they will result in 1.6 cu. ft. of grout
Ratio	Add the premeasured hardener to the grout liquid and mix well for at least three minutes. Pour the mixed liquid into a concrete mixer (6 cu. ft. or less), turn it on, and allow this first batch to "wet out" the interior surface. Remove approximately 5%(10 lbs.) of aggregate from the amount provided for the first batch only and discard it. Add the remaining aggregate to the catalyzed resin in the concrete mixer, and mix two to three minutes, achieving a uniform consistency.  Additional batches: After the first batch, additional batches should be mixed using the sequence and procedure described above, except that the full amount of the aggregate supplied for each unit will be used.

## APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Application Procedure	When the grout liquid and aggregate have been thoroughly mixed, the entire batch should be placed within 20-30 minutes to avoid premature set-up.
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## APPLICATION CONDITIONS

Condition	Material	Humidity
Minimum	50°F (10°C)	0%
Maximum	110°F (43°C)	90%

Substrate temperature must be 5°F above the Dew Point.

### CURING SCHEDULE

Surface Temp.	Chemical Service
60°F (16°C)	4 Days
70°F (21°C)	3 Days
80°F (27°C)	2 Days

As a rule of thumb, allow minimum of two days for the grout to fully cure at a surface temperature of 80°F, or more. Add one day of cure time for each 10°F temperature decrease below 80°F.

### CLEANUP & SAFETY

<b>Cleanup</b>	Thoroughly clean the cement mixer, wheelbarrows, buckets and other tools and equipment with xylene, MEK, or S-10 Cleaning Solvent.
<b>Safety</b>	Read and follow all caution statements on this product data sheet and on the SDS. Employ normal safety precautions. Keep container closed when not in use.
<b>Ventilation</b>	Ventilation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. Use MSHA/NIOSH approved air respirators as needed.
<b>Caution</b>	Fire and explosion hazards: This product contains less than 1% volatile components, however, vapors are heavier than air and can travel long distances, ignite and flash back. Eliminate all ignition sources. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

### PACKAGING, HANDLING & STORAGE

<b>Packaging</b>	<b>.5 c/f unit:</b> <i>Packaged together in one cardboard box</i> Part A: 0.4 Gallon (in a 1 gal can) Part B: 0.4 Gallon (in a 1 gal can) Aggregate: 1x 50lb bag Polymer Quartz Filler <b>.1.6 c/f unit:</b> Part A: 1.2 Gallon (in a 3 gal pail) Part B: 1.2 Gallon (in a 3 gal can) Aggregate: 4x 50lb bag Polymer Quartz Filler
<b>Shelf Life</b>	Part A: 12 months Part B: 12 months
<b>Storage</b>	Warning: All Dudick products classified with DOT labels as either white, yellow or red labels must not be mixed or stored together as an explosive reaction can occur.  All products should be stored in a cool, dry area away from open flames, sparks or other hazards.

# Polymer Quartz

## PRODUCT DATA SHEET



### WARRANTY

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