

REDBAC Quick-Fill Grout- K-005

Description:	REDBAC Quick-Fill Grout is a two component, 100 % solids, low viscosity epoxy resin system specifically formulated for applications requiring high strength, vibration control, and chemical resistance. Redbac Quick-Fill Grout does not contain butyl glycidyl ether (BGE) ¹ or nonyl phenol ² .		
Intended Use:	<ul style="list-style-type: none"> • Grouting machine bases • Setting sole plates • Setting anchor bolts • Repairing deteriorated foundations • Setting leveling wedges • Enhancing concrete surfaces 		
Application Guidelines:	<p>The working time (the time you have before it sets) of this grout will vary according to the air temperature. The average working time at 72 °F (22 °C) will be 20 minutes. In cooler weather you will have more time to pour material and in hotter weather you will have less time.</p> <p>The cure time (the time it takes for grout to develop “operational” strength) will also depend on the air temperature and the temperature of the floor or foundation on which the machinery is being grouted. The average cure time from the last pour to machinery start-up will be 8 hours at 77 °F (25 °C). At lower temperatures, the grout will cure and develop strength more slowly than in warmer temperatures. The temperature of the foundation concrete and the air temperature must be taken into account when assessing the ultimate cure time.</p>		
Handling Properties:	SPECIFIC GRAVITY, g/cm ³	1.75	ASTM D 792
	MIXED VISCOSITY, cP or mPa.s	8,000	ASTM D 2196
	MAXIMUM DEPTH OF POUR, in. (cm)	1	(2.54)
	(May be re-poured up to 6 in. or 15.2 cm)		
Physical Properties:	COMPRESSIVE STRENGTH, psi (MPa)		ASTM D 695
	after 4 h	5,000	(34)
	24 h	12,000	(83)
	3 days	15,200	(105)
	7 days	16,500	(114)
	COMPRESSIVE MODULUS, psi (MPa)	436,300	(3,009) ASTM D 695
	TENSILE STRENGTH, psi (MPa)	4,800	(33) ASTM D 638
	ELONGATION @ BREAK, %	0.5	ASTM D 638
	FLEXURAL STRENGTH, psi (MPa)	6,800	(47) ASTM D 790
	HEAT DISTORTION TEMPERATURE, °F (°C)	161	(71.6) ASTM D 648
	MAX CONTINUOUS SERVICE TEMPERATURE, °F (°C)	200	(93)
	(for non load-bearing applications)		
	HARDNESS, Shore D	90	ASTM D 2240
	WATER ABSORPTION (30 days @ 72 °F or 22 °C), %	0.40	ASTM D 570
	CREEP (24 h @ 600 psi or 4 MPa load @ 150 °F (66 °C), in./in. or cm/cm)	1.95 x 10 ⁻²	ASTM C 1181

1 - Butyl Glycidyl Ether. The EPA (SARA Title III, section 312) lists BGE as “Toxic” (per ANSI Z129.1) by skin absorption and an immediate health hazard.

2 - Nonyl Phenol is a Marine Pollutant and considered “Dangerous for the environment” per the EU directive 79/831/EEC.

Surface Preparation:	<p>CONCRETE PREPARATION: Remove all oil, grease, or contaminated concrete. Chip the surface down to sound aggregate. The concrete must be dry and have no water in the anchor bolt holes. Light acid etching surface preparation procedures may result in poor bond and should be avoided. Do not prime or seal concrete surfaces.</p> <p>FORMING: Standard wood or metal forming may be used. The forms should be protected with heavy coats of paste wax, grease, or form release agent. Wrapping the forms with heavy plastic is acceptable. The forms must be caulked and sealed to a liquid-tight condition.</p> <p>When placing forms for grouting, it is absolutely necessary that the top of the forms be at least half way up the sides of the base plate or machine base. Placing the grout just to the bottom of the base plate will result in an improper grout job. If the forms cannot be placed half way up the side of the machine base, the minimum distance is 3/4 inch above the bottom of the machine base.</p> <p>The forms should be placed between 2 and 6 inches (5.1-15.2 cm) away from the perimeter of the machine base to allow for the air to escape and to provide for a grout shoulder around the base plate.</p> <p>PREPARATION OF METAL SURFACES: Base plates or sole plates to be grouted should be sand blasted to a "white metal" condition. If it is impossible to grout within 24 hours of sand blasting, the surfaces should be primed with a high-quality primer. Do not use porch and deck enamel or red-lead primer.</p>
Mixing:	Two component grouts (resin & hardener) - open both containers and pour the entire contents of the small can (hardener) into the large container (resin). Mix with mixing paddle in a low speed drill until a uniform color appears (3 to 4 minutes). DO NOT ADD ANY WATER. DO NOT add extra hardener-or otherwise alter the component ratios. For meter mixing, confirm pump specifications and follow equipment manufacturer instructions.
Application:	<p>Working time/pouring time will depend on grout temperature and ambient temperature. The average working time, at 72 °F (22 °C) is 20-25 minutes. Pouring time and viscosity decrease as temperature increases. Care should be taken to insure that the entire kit is poured before the working time elapses. In other words, do not mix more than you can pour during the working time.</p> <p>Always sweep (pour) from one side of the base toward the other to eliminate entrapped air. The storage temperature of the unmixed kits of REDBAC Quick-Fill Grout will greatly affect both the ease of pouring and the cure time. For best results, REDBAC Quick-Fill Grout kits should be stored in a warm room for at least 24 hours before use.</p> <p>During cold weather (below 50 °F or 10 °C), it is important that the foundation be enclosed and maintained above 50°F. The cure time of the grout will be longer during cold weather and it is important that the grouted area be kept warm (above 50°F) until the grout has cured completely. Do not pour if the grout is below 50 °F. Conversely in hot weather, do not mix and pour in direct sunlight. Cover or "tent" operations to prevent grout from setting up too fast, which usually leads to excessive shrinkage and/or cracking.</p> <p>Uncured REDBAC grout can be removed from tools and equipment with COPPS ENVIRO-KLEEN or isopropyl alcohol, xylol or ketones.</p>
Packaging:	<p>K-005-22 = 348 in.³ = 5.70 l</p> <p>K-005-50 = 792 in.³ = 12.98 l</p>

SAFETY PRECAUTIONS

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymers, sanding) may cause high vapor concentrations. **DO NOT WELD ON, BURN OR TORCH ON OR NEAR, ANY EPOXY MATERIAL. HAZARDOUS VAPOR IS RELEASED WHEN AN EPOXY IS BURNED.** Hazardous vapor is released when an epoxy is burned. Avoid skin or eye contact. Wash skin with soap and water if contact occurs. If eye contact occurs flush with water for 15 minutes and obtain medical attention. Read and understand all cautions on can labels and safety data sheets before using this material.

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