

REDBAC Low Temperature Grout – K-026

Description:

REDBAC Low-Temperature Grout is a two-component, 100% solids, BGE-free epoxy resin system specifically designed to be poured when air temperatures are between 25°F and 60°F. This is an ideal grout for use in cold climates where outdoor pours are required. Optimum pouring range is 45 ° - 55 °F which allows for best worklife and installation. Low Temperature Grout must be stored at, or warmed to, 45° - 65°F. Do not use Low Temperature Grout at temperatures above 60 °F; the worklife is too short and cure related cracking may result.

Handling Properties:

MIXED VISCOSITY, cP or mPa.s	20,000	@ 40 °F	ASTM D 2393
	4,000	@ 72 °F	
WORKING TIME, min	30 min.	@ 40 °F	
	7 min.	@ 72 °F	
GEL TIME, min	120 min.	@ 40 °F	
MAXIMUM DEPTH OF POUR, in. (cm)	2	(5.1)	

Physical Properties:

COMPRESSIVE STRENGTH, psi	18,700		ASTM D 695
TENSILE STRENGTH, psi	6,100		ASTM D 638
FLEXURAL STRENGTH, psi	10,500		ASTM D 790
HEAT DISTORTION TEMPERATURE, °F (°C)	153	(67)	ASTM D 648
MAXIMUM CONTINUOUS SERVICE TEMPERATURE, °F (°C)	200	(93)	
HARDNESS, Shore D	95		ASTM D 2240
CREEP (24 hours @ 600 psi @ 150 °F (65.5 °C))	1.76 x 10 ⁻²		ASTM C 1181
	(in/in or cm/cm)		
WATER ABSORPTION (30 DAY IMMERSION), %	0.50		ASTM D 570

Surface Preparation:

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.

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.

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.

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.

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.

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.**

Pour this material immediately after mixing; work life is much shorter than with standard epoxy grout.

Application:

Working time/pouring time will depend on grout temperature and ambient temperature. The average working time, at 40°F (5°C) is 30 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.

Always sweep (pour) from one side of the base toward the other to eliminate entrapped air. Low Temperature Grout must be stored at, or warmed to, 45°- 65°F. Do not use Low Temperature Grout at temperatures above 60°F; the worklife is too short and cure related cracking may result.

Uncured REDBAC grouts can be removed from tools and equipment with COPPS ENVIRO KLEEN or isopropyl alcohol, xylol or ketones.

Packaging:

23 lb. kit = $380 \text{ in}^3 = .22 \text{ cu ft.}$
50 lb. kit = $812 \text{ in}^3 = .47 \text{ cu ft.}$

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.

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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