



An ISO 9001 Certified Company

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REDBAC NONHAZ STANDARD BACKING

NON-HAZARDOUS (NON-CORROSIVE) CRUSHER BACKING

K-817

REDBAC NONHAZ STANDARD BACKING IS A DOT NONCORROSIVE VERSION OF OUR STANDARD BACKING. IT HAS BEEN CAREFULLY FORMULATED TO ADDRESS ENVIRONMENTAL, WORKPLACE SAFETY, AND SHIPPING CONCERNS. REDBAC NONHAZ STANDARD BACKING WILL PROVIDE THE SAME SUPPORT OR "BACK UP" FOR MANGANESE STEEL OR ALLOY WEAR PARTS IN CONE AND GYRATORY CRUSHERS AS OUR TRADITIONAL MATERIAL. REDBAC NONHAZ BACKING IS BGE1 - BUTYL GLYCIDYL ETHER, VOC, AND NONYL PHENOL FREE2!

HANDLING PROPERTIES @ 72 °F (22 °C)

Table with 3 columns: Property, Value, and Reference. Rows include Specific Gravity, Density, Mixed Viscosity, Working Time, and Gel Time.

PHYSICAL PROPERTIES

Table with 3 columns: Property, Value, and Reference. Rows include Compressive Strength, Compressive Modulus, Tensile Strength, Heat Distortion Temperature, Hardness, Impact Strength, and Water Absorption.

PACKAGING/KIT VOLUMES

Volume/kit:

22 lb (10 kg) = 352 in.³ = 5.77 l
50 lb (22.7 kg) = 800 in.³ = 13.11 l

Bulk quantities are available for automatic meter mixing/dispensing equipment applications.

- 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.

APPLICATION INSTRUCTIONS

The storage temperature of Copps Backing will greatly effect both the ease of pouring and the curing time. For best results, Copps Backing kits should be stored inside (60-80 °F or 16-27 °C) for at least 24 hours before use.

PREPARATION OF PARTS

1. Be sure that the backing surfaces are dry, free of rust, dirt, grease, and oil (See No. 3).
2. Assemble crusher parts in the usual manner.
3. Where bonding to a surface is not required, coat the surface with a light oil or a release agent. No grease/oil/release on wear parts.
4. Seal all gaps with clay, putty, or plaster to prevent leakage.
5. If the temperature is below 60 °F (16 °C) pre-heat the wear parts with a torch to bring the temperature up to 80-90 °F (27-32 °C). Do not pour Copps Backing into parts hotter than 150 °F (66 °C).

MIXING AND POURING

1. Mix and pour only 1 kit at a time to prevent Copps Backing from hardening in the container. Do not mix/use partial kits.
2. Open both containers and slowly pour the entire contents of the small can (hardener) into the larger pail (resin).
3. Mix using the mixing paddle in a low speed (850 rpm or less), heavy duty drill and mix the Copps Backing until a uniform color appears, normally 3-4 minutes, longer if backing is cold or "stiff."
4. **Pour immediately** into crusher voids.

Caution: Mix and pour in a well-ventilated area. Avoid contact with skin and eyes. If contact does occur, wash skin with soap and water and seek medical help. Read and understand all CAUTIONS on container labels and material safety data sheets before using this material.

HANDLING/WORKING TIME

Working time will depend on backing temperature, ambient temperature and temperature of parts. Typical working time at 72 °F (22 °C) is 20-25 minutes. Working time and viscosity increase as temperature decreases. With hotter temperatures you have less time to pour. 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.

The cure time of Copps backing will depend greatly on the air temperature, the temperature of the concaves or mantle and the backing temperature. If the temperature is low, heat can be applied to the outside of the concaves or mantle with a torch to bring their temperature up to 80-90 °F (27-32 °C). Do not exceed 150 °F (66 °C). Do not apply the torch directly to the backing or to backing pails.

Use the chart below only as a GUIDE for approximate curing time.

Temperature of bowls or mantles and backing, °F (°C)	Cure time from last pour to Crusher restart, hrs
50 (10)	24
60 (16)	12
70 (21)	6
80 (27)	3
90 (32)	1½

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.**

WARRANTY AND DISCLAIMER

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