

## TROWELBAC TROWELABLE BACKING K-004

TROWELBAC is a two component, 100% solids non-sag epoxy system specifically formulated for use when replacing worn mill liners without removing the charge. The paste-like consistency allows TROWELBAC to be easily mixed and applied to vertical surfaces. Trowelbac backing does not contain voc's, butyl glycidyl ether (BGE)\* or nonyl phenol. \*\*

TROWELBAC may be used for the same applications as REDBAC CRUSHER BACKING. TROWELBAC backing is applied to the backs and bolt holes of the liner segments to lock the bolts and liner in place.

TROWELBAC may also be used as an adhesive, patching compound, or corrosion inhibiting coating in general plant use.

### HANDLING PROPERTIES

MIX RATIO, VOLUME	1:1	
VISCOSITY	Non-Sag Paste	
SPECIFIC GRAVITY, g/cm <sup>3</sup>	1.73	ASTM D 792
WORKING TIME @ 70 °F (21 °C), min	45	
GEL TIME @ 77 °F (25 °C), min		
14 fl. oz (414 ml)	60	ASTM D 2471
1/16 in. (0.16 cm) film	120	

### PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH, psi (MPa)	10,000* (69)	ASTM D 695
TENSILE STRENGTH, psi (MPa)	3,700 (26)	ASTM D 638
FLEXURAL STRENGTH, psi (MPa)	6,500 (45)	ASTM D 790
TENSILE SHEAR STRENGTH, psi (MPa)	2,400 (17)	ASTM D 1002
HEAT DISTORTION TEMPERATURE, °F (°C)	147 (64)	ASTM D 648
HARDNESS @ 77 °F (25 °C), Shore D	87	ASTM D 2240

\*Lower modulus materials often do not exhibit a definite yield point. The compressive strength stated was recorded at a loading speed of 0.05 in/min and at a point in which samples had been deeply compressed. The sample had not yet fractured at the point testing was discontinued.

### PACKAGING/KIT VOLUMES

24 lb (10.88 KG)= 450 in<sup>3</sup>=7.57L

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

\*\*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 Trowelbac will greatly effect both the ease of use 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 apply Trowelbac to parts hotter than 150 °F (66 °C).

### MIXING AND POURING

1. Mix and apply only one (1) kit at a time to prevent Trowelbac from hardening in the container. Do not mix/use partial kits. **DO NOT "EYE BALL" AMOUNTS LESS THAN ONE KIT.**
2. Mix using the mixing paddle in a low speed (850 rpm or less), heavy duty drill and mix Trowelbac until a uniform color appears, normally 5-6 minutes, longer if backing is cold or "stiff."
3. **Apply immediately** into crusher or mill 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.**

**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 material safety data sheets before using this material.

### WARRANTY AND DISCLAIMER

Copps Industries, Inc. gives no warranty, express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product. Copps Industries, Inc. shall be in no way responsible for the proper use and service of the product. The information given in this publication is considered to be accurate and reliable and is provided as a service only. Physical properties shown are typical. Actual properties are dependent on curing conditions and degree of cure. Any information or suggestions given are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

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