

REDBAC Standard Crusher Backing – K-001

Description:	Designed for cone and gyratory crushers, REDBAC standard backing is recommended for use in most, including severe, crushing applications. The uniform consistency, pourability and cured toughness assure maximum support of cast wear parts. It offers elevated compressive strength, service temperature and impact resistance. REDBAC backing does not contain VOC's, butyl glycidyl ether (BGE)1, or nonyl phenol2				
Handling Properties:	SPECIFIC GRAVITY, g/cm ³	1.75		ASTM D 792	
	DENSITY, Ib./gal	14.60		ASTM D 792	
	MIXED VISCOSITY, cP or mPa.s	8,000		ASTM D 2196	
	WORKING TIME, min	20-25			
	GEL TIME, min	30		ASTM D 2471	
Physical Properties:	COMPRESSIVE STRENGTH, psi (MPa)	16,500	(114)	ASTM D 695	
	COMPRESSIVE MODULUS, psi (MPa)	436,300	(3,009)		
	TENSILE STRENGTH, psi (MPa)	4,800	(33)	ASTM D 638	
	HEAT DISTORTION TEMPERATURE, °F(°C)	161	(71.6)	ASTM D 648	
	HARDNESS, Shore D @ 77 °F (25 °C)	92		ASTM D 2240	
	IMPACT STRENGTH, Izod notched, inlb./in. (cm.kg/cm)	4.1	(1.86)	ASTM D 256	
	WATER ABSORPTION	0.40		ASTM D 570	
	30 day immersion @ 72 °F or 22 °C, %	0.19 0.42			
Packaging:	Volume/kit:				
	22 lb. (10 kg) = 348 in. ³ = 5.70 l 50 lb. (22.7 kg) = 792 in. ³ = 12.98 l				
	Bulk quantities are available for automatic meter mixing/dispe	nsing equipmer	nt applicati	ons.	
Preparation:	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.				
	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 to bring the temperature above 60 °F (16 °C). Do not pour Buffalo Wire Works Backing into parts hotter than 150 °F (66 °C).				

¹ 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.

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

Flooring • Grouts • Wear Resistant Coatings • Adhesives • Custom Formulating • Epoxy Varnishes • Potting Compounds

Mixing:	The storage temperature of Copps Backing will greatly impact both the ease of pouring and the cu time. For best results, Copps Backing kits should be stored inside (60-80 °F or 16-27 °C) for at leas hours before use.			
	 Mix and pour only 1 kit at a time to prevent Copps I mix/use partial kits. 	Backing from hardening in the container. Do not		
	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 (500 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. <i>Pour immediately</i> into crusher voids.			
Curing Procedures:	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 ensure 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 to bring their temperature up to 60 °F (16 °C). Do not exceed 150 °F (66 °C).			
	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		
	/0 (21) 80 (27)	0 3		
	90(27)	5 11⁄2		
	1 20 (32)	1/2		

SAFETY PRECAUTIONS

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 safety data sheets before using this material.

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.**

FOR INDUSTRIAL USE ONLY

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 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.