

**TECHNICAL DATA SHEET**

**Description:**

High-strength liquid epoxy with the necessary resiliency and strength to withstand forces generated by crushers and mills for maximum protection and damping material when subjected to impact and shock loads. It serves as a backing and reinforcing layer between machine parts and provides high level positive support of wear liners. The products maintain their strength to ensure all wear linings are sufficiently protected throughout the crusher maintenance cycle. The crushers are used in applications for the reduction of materials like rock, iron ore, gypsum, river gravel, limestone, basalt, gabbro, magnetite and also for the aggregate crushing.

**Typical Applications**

- ✓ Cone Crushers
- ✓ Gyratory Crushers
- ✓ Stone Crushers
- ✓ Grinding Mills
- ✓ Autogenously mills
- ✓ Ball Mills
- ✓ Setting anchor bolts
- ✓ Chocking of machinery
- ✓ Foundation bedding
- ✓ Locking Bearings
- ✓ Water Flush Systems

**Product Features**

- ✓ Non-flammable
- ✓ Require no special equipment in the application
- ✓ Replace costly and dangerous molten zinc pours
- ✓ 100% solids - no solvents
- ✓ High compression and impact strength
- ✓ Low exothermic reaction
- ✓ Minimal filler settlement in containers - easily mixable, pourable and for usage.
- ✓ High hydrolytic stability provides low water absorption
- ✓ High volumetric stability eliminates gaps between liners

Typical Properties	Properties	Standard	Unit	Values
	Color	ASTM D 1544	~	Brown
	Appearance	ASTM D 1544	~	Viscous Liquid
	Specific Gravity	ASTM D 1895 B	gm/cc	1.68
	Mixed Viscosity	ASTM D 891	Cps	30000
	Solids by Volume		%	100
	Pot Life	IS 101	min	30
	Functional Cure Time	ASTM D 5895	hours	8
	Compressive Strength	ASTM D 695	Psi	15500
	Tensile Strength	ASTM D 638	Psi	6200
	Impact Strength	ASTM D 610	KJ/M <sup>2</sup>	1.6
	Adhesive Shear Strength	ASTM D 1002	Psi	1100
	Cured Shrinkage	ASTM D 2566	in/in	0.0005
	Hardness	ASTM D 2240	shore D	90
	Chemical Resistance	ASTM C 267	%	Excellent
	Water Absorption	ASTM D 570	%	0.002
	Maximum Application Temp	VISUAL	°C	121
Coverage	~	Cm3/ 8.5 Kgs	275	
		Cm3/ 10 kgs	340	

### Application Instructions

Surface Preparations
<p>It is essential that all surfaces to be treated are properly prepared to obtain a strong bond between the substrate and</p> <ul style="list-style-type: none"> <li>✓ Clean surface again with SavesPast ACR, Cleaner to remove all traces of oil, grease, dust or other foreign substances from the grit blasting.</li> <li>✓ Repair surface as soon as possible to eliminate any changes or surface contaminants/flash rusting/oxidation.</li> </ul> <p>Note: Seal all crevices with putty or other suitable material to prevent backing material from leaking out.</p>

Mixing Instructions
<ul style="list-style-type: none"> <li>✓ Turn pails upside down 8 hours prior to application. This will allow material to become softer and easier to mix.</li> <li>✓ Add Hardener to Resin.</li> <li>✓ Mix thoroughly with screwdriver or similar tool like propeller-type jiffy mixer on an electric drill while continuously scrape material away from sides and bottom of container until a uniform, streak-free consistency is obtained.</li> </ul> <p>Note: Keep propeller below liquid line, as additional air can be added to mixture, resulting in air bubbles on the surface of the finished product.</p>

Thoroughly mix Crusher Backing Compound, then immediately pour into designated area, allowing compound to fill the cavity and push air away from the pour.

- ✓ Use a dam (tin, cardboard, clay etc.,) to seal areas and direct flow of the compound to the specified area.
- ✓ Any unmixed resin (different color) clinging to the sides and/or bottom of the pail should NOT BE poured into the crusher, as it may not harden.

Note:

It is recommended that the product is brought to the most suitable working temperature of about 20° C by placing it in a warm room 24 hours prior to use. At lower temperatures the material will be more viscous and at temperatures above 30° C the pot life of the product will be reduced.

### **KrushMore AR (Accelerator)**

Accelerates cure speed of Backing Compound in cold weather conditions (<15°C)

KrushMore AR (Accelerator) is added to Resin prior to mixing to speed the cure of the material when equipment and ambient temperatures are below 15°C. Please refer table below for cure schedule.

Product	Temperature	Functional Cure		
		Without mixing of KrushMore AR	After mixing 1 bottle of KrushMore AR	After mixing 2 bottle of KrushMore AR
<b>KrushMore CBC</b>	22 °C(72°F)	21 minutes	13 minutes	9 minutes
	8 °C(44°F)	32 minutes	28 minutes	12 minutes
<b>KrushMore HPCBC</b>	22 °C(72°F)	46 minutes	24 minutes	18 minutes
	8 °C(44°F)	220 minutes	75 minutes	55 minutes

### **KrushMore LC (Locking Compound)**

Locks the inner and inner eccentric bushings

### **KrushMore RA (Release Agent)**

To facilitate easier removal for of worn liners.

### **Application Tips:**

#### **Cold Weather Conditions (<15°C)**

Warm Up Backing: Place unopened pails in a hot water bath or near a radiant heat source.

Warm up Equipment: Bowls, concaves, or mantles should also be at desired temperature. Heat can be applied to the outside of the concave or mantle with a torch to bring its temperature up to 26°C-32°C. Do not exceed 65°C.

#### **Hot Weather Conditions:**

Cool Up Backing: Place unopened pails in a cold water bath or near a cool source.

Cool up Equipment: Bowls, concaves, or mantles should also be at desired temperature. Chill air can be exposed to the outside of the concave or mantle to bring its temperature up to 32°C. Do not decrease beyond 15°C

At temperature below 5°C and above 40°C casting should not be carried out.

**Product Limitation**

At temperatures below 5° C and above 40° C casting should not be carried out.

**Prolonged exposure to temperatures below 15°C may affect product performance:**

- ✓ Difficulty to mix Resin and Hardener
- ✓ Difficulty to pour
- ✓ Longer cure time

Failure to adhere to the correct mixing ratio or poor mixing will result in the Compound failing to harden in several areas, thus causing the whole pour to be ruined.

**Don't's**

- ✓ Never apply torch directly to the KrushMore Plastic/Metal Containers. It may cause containers to melt may even lead to boiling of Hardener.
- ✓ Resin and Hardener are supplied in balanced ratio. Do not alter.
- ✓ Do not add extra Hardener. It will not speed up the cure and indeed affect the performance of properties.

**LIMITED WARRANTY NOTICE**

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**Product Order Information**

Product Name	Product Code	Product Pack Size
KrushMore CBC	22005	8.5kg
KrushMore AR	22013	85 gms
KrushMore LC	22016	2.5kg
KrushMore RA	22012	275 gms