

**LOCTITE**

**Nordbak**<sup>®</sup>

**CRUSHER REPAIR  
PRODUCTS**



**Backing Materials**

Cone Crushers

Gyratory Crushers

Water Flush Systems

Grinding Mills

Locks & Dams

**The Leader in Crusher Repair Products**



Nordbak® Crusher Repair Products are high performance 100% epoxy systems formulated for maximum protection and positive support of wear liners. Designed as alternatives to dangerous and costly molten zinc pours for crusher maintenance procedures, Nordbak® products are the industry leaders with proven performance. All products are non-flammable, require no melting or special equipment, and are conveniently packaged in kit form for easy mixing and application.

# CRUSHER REPAIR PRODUCTS

## **Nordbak® Backing Material**

100% solids epoxy compound for backing wear plates in cone crushers and grinding mills. Provides high compressive strength and impact resistance. High volumetric stability eliminates gaps between liners. Nonflammable. Pourable compound requires no melting or special equipment.

## **Nordbak® High Impact Backing Material**

Exhibits excellent resilience while retaining high compression and tensile strengths. In all other respects (heat distortion temperature, ease of mixing and pouring) this formula is nearly identical to Nordbak® Backing Material.

## **Nordbak® Accelerator for Backing**

Used with regular Nordbak® Backing Material, Accelerator is added to resin prior to mixing to speed the cure of the material when equipment and ambient temperatures are below 55°F. (To speed the cure of High Performance Backing Material and Locking Compound, consult the factory.)

## **Nordbak® High Performance Backing Material**

For use in water flush systems and protecting wear plates under the most demanding conditions. Provides the highest compressive strength and impact resistance. High volumetric stability eliminates gaps between liners. Nonflammable. High hydrolytic stability provides low water absorption.

## **Nordbak® Trowel Mix**

Backing material in a trowelable, putty form. Used to back liners in all types of mills without dismantling the mill or removing the grinding charge. Recommended for backing head liners, division heads, diaphragms, and securing liner bolts. Unused portions may be resealed for future use.

## **Nordbak® Backing for Locks and Dams**

Backing/grouting material provides outstanding physical performance under tough engineering applications. Stronger than concrete, it adheres where other materials fail. Fast setting to save time and money. Superior strength withstands high vibration. Self-leveling. Insignificant shrinkage maintains critical alignment.

## **Greenbak™ Backing Material**

Low odor, non-hazardous version of the original 100% solids epoxy system for backing wear plates in crushers and grinding mills. High volumetric stability eliminates gaps between liners. Nonflammable. Pourable compound requires no melting or special equipment.

## **Nordbak® Locking Compound**

Locks the inner and outer eccentric bushings in Symons® Cone Crushers. High impact system resists temperatures to 225°F. Safe and easy to use, saves time and money. Mix and pour at room temperature. One kit required for all sizes of Symons® Cone Crushers up to 5.5 ft. Two kits required for 5.5 ft Symons® Cone Crushers.



**PROPERTIES CHART**

<b>PRODUCT</b>	<b>Product Number</b>	<b>Container</b>	<b>Coverage, cu. in. @ 1/4" thickness</b>	<b>Mixed Color</b>	<b>Maximum operating temperature, °F</b>	<b>Compressive strength, psi</b>	<b>Tensil strength, psi</b>	<b>Impact strength, ft.lbs./in.</b>	<b>Hardness (Shore D)</b>	<b>Working time at 77°F, minutes</b>	<b>Functional cure at 77°F, hours</b>
<b>Backing Material</b>	99692	2 gallon kit	340	Brown	170	15,500	6,200	1.6	90	10	8
	99695	5 gallon kit	850								
	99697	55 gallon kit	9350								
<b>High Performance Backing</b>	98072	2 gallon kit	340	Red	220	18,000	6,500	2.7	90	20	8
	98075	5 gallon kit	850								
	98077	55 gallon kit	9350								
<b>Greenbak™ Backing</b>	95532	2 gallon kit	340	Green	170	15,400	4,700	-	87	10	8
	95535	5 gallon kit	850								
<b>High Impact Backing</b>	99652	2 gallon kit	340	Brown	170	11,000	3,000	1.4	85	30	8
<b>Trowel Mix</b>	39748	5 gallon kit	18 sq. ft. @ 1/4" thick	Brown	180	16,000	4,000	1.6	90	15	8
<b>Locking Compound</b>	98971	2 gallon kit	115	Grey	225	12,000	6,000	3.0	90	10	8
<b>Accelerator for Backing</b>	96554	2.8 fl. oz.	-	Blue	-	-	-	-	-	-	-
<b>Backing for Locks and Dams</b>	98792	2 gallon kit	330	Blue	200	16,500	6,000	-	90	15	72
	98797	55 gallon kit	9075								
<b>Mixing Paddles</b>	94024	6 per box	-	-	-	-	-	-	-	-	-

**APPLICATION RECOMMENDATIONS**

<b>APPLICATION</b>	<b>Backing Material</b>	<b>High Performance Backing Material</b>	<b>Greenbak™ Backing Material</b>	<b>High Impact Backing Material</b>	<b>Trowel Mix</b>	<b>Locking Compound</b>	<b>Backing Material with Accelerator</b>	<b>Backing for Locks and Dams</b>
<b>Cone Crushers Up to 7 Foot</b>	●		●	●				
<b>7 Foot Cone Crushers</b>		●						
<b>Extreme Hard Rock Crushing</b>		●						
<b>Primary Gyratory Crushers</b>		●						
<b>Grinding Mills</b>	●		●	●	●			
<b>Lock Eccentric Bushings</b>						●		
<b>Cold Temperature Crusher Pours</b>							●	
<b>Supporting Members on Miter Gates</b>								●
<b>Grouting Ancillary Equipment</b>								●



Approximate number of 2 gallon (21.5 lbs./10 kg) kits of Nordbak® Backing Material required for crushers

**NORDBERG® PRIMARY GYRATORY CRUSHERS**

Crusher Size	HD 42-70	HD 54-80	HD 60-102
Mantle	24	39	49
Concave	69	119	177

**NORDBERG® WATER FLUSH SYSTEMS**

Crusher Type	WF 500	WF 800
Mantle	5	8
Bowl	14	40
Bowl - using filler blocks	—	20

**SYMONS® CONE CRUSHERS**

Standard Cone Crusher							
Crusher Size	2'	3'	4'	4 1/4'	5'	5 1/2'	7'
Mantle	1	2 1/2	3 1/2	4	3 1/2	7 1/2	12
Bowl Liner	1	1 1/2	3 1/2	4 1/2	5	7 1/2	15
Short-Head® Cone Crusher							
Mantle	1	1 1/2	2	2	2 1/2	3 1/2	6 1/2
Bowl Liner	1	1 1/2	3	2 1/2	5	6	9

**Note:** These figures are based on cone crushers with a fine bowl and fine liner. The condition of liners and bowls may vary due to wear.  
**Locking compound requirements** All sizes of Symons Cone Crushers Up To 5 1/2 Foot — 1 Kit. For 5 1/2 Foot Symons Cone Crushers — 2 Kits

**TELSMITH GYRASPHERE® CRUSHERS**

Style S												
Crusher Size	24	36	367	48	489	66	6614	1100	1100SX	1300	1500	1500SX
Mantle	1 1/2	2	2	4 1/2	4 1/2	4	9 1/2	2	2	4	5	6
Concave Ring	1	1 3/4	1 3/4	4	4	5 1/2	17 1/2	—	—	—	5	—
Medium								4 1/2	4 1/2	—	—	6
Coarse								4	4	4	—	5
Style FC												
Mantle	1 3/4	2	—	2	—	9 1/2	—	2	—	—	5	—
Concave Ring	1	1 3/4	—	3 1/2	—	12	—	—	—	—	5	—
Medium								4	—	—	—	—
Coarse								3	—	—	—	—

**ALLIS-CHALMERS CRUSHERS**

Superior											
Crusher Size	13-36	16-50	24-60	30-55	30-70	36-55	42-65	48-74	54-74	60-89	60-109
Mantle	5	17	18	16	24	27	37	46	46	66	90
Concave	5	26	41	48	46	70	95	110	173	190	220
Hydrocone											
Crusher Size	36"	45"	51"	60"	84"						
Mantle	1	4 1/2	5	6	22						
Concave	—	9	14	36	43						

**EL-JAY ROLLERCONE® CRUSHERS**

Crusher Size	36"		45"		54"	
	Standard	Fine Head	Standard	Fine Head	Standard	Fine Head
Mantle	1	1	1 1/2	1 1/2	2	2
Bowl Liner	1 1/2	1 1/2	3	3	4	4

**PIONEER CONE CRUSHERS**

Crusher Size	48"		54"	
	Standard	Fine Head	Standard	Fine Head
Mantle	3	2	4	2
Bowl Liner	3	2	4	2

**TRAYLOR "TY" CRUSHERS**

Crusher Size	1'3"	1'8"	2'4"	3'	4'	5'6"
Mantle	1/2	1	1 1/2	2 1/2	7 1/2	11 1/2
Concave	1	2	5 1/2	7 1/2	19	33

**TRAYLOR "TC" CRUSHERS**

Crusher Size	30"	36"	42"	48"	54"	60"
Mantle	18	25	29	46	51	57
Concaves	32	57	69	91	114	160

For all other crushers, simply divide the amount of metallic backing previously required by 88 to determine the number of kits of Nordbak® Backing Material required. Requirements will vary depending on the type of liners used.

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