

20kg PART NUMBER 9505-9987
10kg PART NUMBER 9505-9984

TECHNICAL DATA

Components	Two Parts – Resin & Hardener
Appearance (Resin)	Red Oxide
Appearance (Hardener)	Blue
Appearance (Mixture)	Red
Kit sizes	20kg (11.9 Litres) 10kg (5.95 Litres)

DESCRIPTION:

NORDBAK® HI-PERFORMANCE BACKING is a 100% solids co-polymer system for backing metal wear plates in large gyratory crushers and seven-foot cone crushers. It offers excellent impact strength and resilience, together with high compression and tensile strengths. It is non-flammable, needs no melting or special equipment and has high volumetric stability that eliminates the formation of gaps between backing and liners or support structures. Ideally suited to Chrome, Platinum, Manganese and Iron ores to improve liner life.

BENEFITS:

- Non-hazardous.
- No molten zinc and peripheral equipment.
- 100% solids co-polymer system.
- Saves downtime and maintenance cost.
- Tough and resilient.
- Easy and safe to use.

PHYSICAL PROPERTIES (all at 25°C)

Compressive strength	Suitable for large Gyratory and Cone Crushers
Working time	20 Minutes
Gel time @ 25°C	20 - 35 Minutes
Final Cure time @ 25°C	6 Hours

APPLICATION INSTRUCTIONS:

PREPARATION OF PARTS:

- Store backing material and concaves between 16°C - 26°C for 24 hours prior to application.
- Backing surface of concaves should be uncoated metal free of rust, dirt, grease, and oil. Place the first row of concaves and support them in the usual manner. Use wood strips around each concave to obtain even spacing.
- A light coating of release agent should be applied to all surfaces of the bowl or mantle to facilitate future removal of worn liners.

- **N.B. DO NOT APPLY RELEASE AGENT ONTO LINERS THEMSELVES.**
- Seal gaps between concaves to prevent leakage with **NORDBAK® TROWEL MIX**.
- If ambient temperatures are expected to be below 16°C, apply heat with torches between concaves and the shell to bring the temperature up to the specified level, preferably 32°C, but not more than 60°C.

MIXING:

- Premix resin in large pail for one minute using a low-speed drill.
- While stirring, add hardener contents from the small bottle at a slow continuous rate. Move stirrer up and down and around the sides of the pail until the contents are a uniform colour. Mix for three minutes.

APPLICATION METHOD:

- Pour the mixture at several locations around the concave ring.
- After the entire row is fully backed, more heat can be applied to the face side of the concaves to accelerate curing, while the next row of concaves is being installed.

SAFE HANDLING PROCEDURES

WARNING:

Provide adequate ventilation and respirators. Avoid inhaling fumes. Personnel are required to use airline respirators when torch cutting or grinding the product. Avoid contact with skin and eyes.



NORDBAK® has a wide variety of resin systems now available. **Crusher:** NORDBAK® Fast-set and Deep Pour Grouts, NORDBAK® Trowel mix, NORDBAK® Primary, High Performance and Standard **Backing Compounds:** Wearing compounds include NORDBAK® **High Temperature Wearing Compound:** NORDBAK® High Temperature Pneu Wear, NORDBAK® Regular Wearing Compound, NORDBAK® Nordwear 5, Nordwear 8 and Nordtile wearing compounds and the Nordcoat Acid resistant coating range.

TECHNICAL TIPS FOR WORKING WITH HI-PERFORMANCE BACKING:

Working time and cure depends on temperature and mass:

- The higher the temperature, the faster the cure.
- The larger the mass of material the faster the cure.

To speed up the cure time at low temperatures:

- The lower the temperature, the longer the cure.
- In cold weather, store kits in a warm area and warm the resin between 15 -25°C before mixing.
- Pre-heat surface until warm to the touch.

DO NOT MIX RESIN AND HARDENER UNTIL READY TO COMMENCE.

PROTECTION:

- All work is to be done in a well-ventilated area.
- Overalls and eye protection required.
- Refer to Material Safety Data Sheet.

STORAGE:

Store indoors on pallets at temperatures between 10°C and 35°C. Keep container tightly closed and away from acids and oxidizers. If product is removed from container do not return it to original container as contamination may have occurred.

DISCLAIMER:

The information provided in this data sheet including the recommendations for use and application of this product are based on our knowledge and practical experience and laboratory tests of the product as at the date hereof. This data sheet shall be used as a guide to the user's application.

This product has been designed for specific applications based on normal working and operating conditions, and although it may be used in different applications and working conditions such instances are beyond our control. Therefore Nordbak shall not be liable for the suitability/merchantability of our product in your application unless we have specifically advised so in writing. Accordingly, we advise that you conduct your own investigations to confirm the suitability of our product, as it ultimately remains the user's responsibility to protect property and persons against hazards emanating from the handling and use thereof. Accordingly, any civil liability as a result of damages, injury, or death, in respect of the information in this data sheet, or any other written or oral recommendation(s) regarding the suitability of this product, are hereby excluded. Furthermore Nordbak shall not be liable under any circumstances for any consequential or incidental damages of any kind, including but not limited to loss of profits.

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