CERAMIC PIPE LINING COMPOUND

Technical Data Sheet
July 2023

PART NUMBER 7459-6162

TECHNICAL DATA

Components	Two Parts – Resin & Hardener
Appearance (Resin)	Red
Appearance (Hardener)	Black and white beads

DESCRIPTION:

Ceramic Pipe Compound is ideal for armour-surfacing high wear areas caused by solids or slurries. Contains sapphire hard alumina ceramic beads in co-polymer resin. The Irregular beads take the wear and prolong life of the base material.

Ceramic Pipe Compound's resin and hardener are mixed, forming a semi-thick liquid that is poured into a pipe and can completely coat the inside diameter of the pipe evenly.

Ceramic Pipe Compound will bond to all types of wear metal with proper surface cleaning. **Ceramic Pipe Compound** can be used wherever high wear conditions have been wearing production profits.

FEATURES	BENEFITS
Co-polymer chemistry	• Harder than epoxy. • Improved heat resistance. • Improved chemical resistance. • Easier to use than epoxy.
Bead Structure	• The chemical composition of the polymer is such that more solids can be used resulting in better wear properties. • Irregular beads overlap forming a carpet of wear resistance. • Polymer does not wash out.

PHYSICAL PROPERTIES

Shore D hardness	80 - 95
Gel Time	110 Minutes @ 25°C
SG (combined)	2.2 g/cm²
Cure time	5.5 hours at 25°C

RELATIVE WEAR RESISTANCE OF CERAMIC PIPE COMPOUND VS. OTHER WEAR MATERIALS (SLIDING FINE GRAIN ABRASION)

Diamond	10.00
Boron Nitride	8.00
Ceramic Al_2O_3	6.00
CERAMIC PIPE COMPOUND	**4.60**
Tungsten Carbide	4.50
Silicon Carbide (Cemented)	3.00
Urethane	2.50
Gum Rubber	1.00
Neoprene	.75
Ni-hard Cast	.60
Ti Steel Plate	.50
C Steel Plate	.30
Aluminum	.10

APPLICATION INSTRUCTION

Please refer to SOP 808-14 and SOP 705-14

1. Measure the pipe temperature before application, if the temperature is low as stated in the SOP, please heat up the pipe while spinning the pipe.
2. When the pipe has reached the adequate application temperature as per SOP 808-14, then the mixed product can be poured in the pipe while spinning. Please refer to SOP 705-14 for the operational procedure.

MIXING INSTRUCTIONS

MIXING PADDLE DESIGN (12 MM ROUND BAR) MIXING AND POURING INSTRUCTIONS

1. Premix resin using a low-speed power drill (400 rpm max) for ± 2 minutes.
2. While stirring, it is important to move the stirrer up and down and around the sides of the pail to disperse resin evenly. Mix for ± 3 minutes. (Excessive mixing speeds cause air entrapment, resulting in foaming of the product).
3. Add hardener and mix for a further 2 minutes or until a uniform colour is achieved.

193 Immelman road, Wadeville, Germiston - P.O Box 14794, Wadeville, 1422 - Tel: +27 11 824 1640 - Web: www.nordbak.co.za

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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 because 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.

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.