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Boron Nitride Cera Patch

Refractory Putty for Patching, Repairing, and Filling

BN Cera Patch provides a ready-to-use, water-based ceramic putty patching material that can be filled into any fissure, crack or defect in refractory materials to achieve nonwetting with molten aluminum. This premium repair product is based on Boron Nitride and is completely free of Refractory Ceramic Fiber (RCF). BN Cera Patch is engineered to expand to fill damaged areas and does not sinter, shrink or crack with use. Adheres well to all refractory surfaces, dense or porous. Applicable for all environments to 800 C (1472 F) for continuous use, and to 1000 C (1832 F) for intermittent use. Ready-to-use after applying with putty knife or trowel followed by drying. No special cure is needed.

Key Attributes

- Premium Product: Utilizes Boron Nitride for best nonwetting and is non-reacting with molten aluminum and its alloys or drosses
- Smoothly applies and spreads easily; dries in minutes at room temperature
- Expands to fill the damaged areas: does not sinter, shrink or crack with thermal cycling
- Excellent nonwetting, strength, hardness, and toughness that prevents molten aluminum from reacting or undercutting any coated or filled regions
- Stops metal penetration
- Long life of the repaired areas due to non-reaction/non-wetting
- High adhesion to all refractory types (dense or porous) without chipping or flaking
- Fills fissures, cracks, seams and joints
- Not sensitive to freezing

Ideal Use

- Repairing and patching cracks, fissures, ruts, pock marks, joints, defects in molten-aluminum- transport refractories
- Preventing adhesion and sticking of residual metal in cavities and cracks

Sizes and colors

Standard Size: 32 oz. metal can or 0.6 gallon container
 BN Cera Patch is a white-colored putty.

Safety Information

- Consult SDS before use.
- For industrial use only



Specifications

Active Ingredients	BN
Max Use Temperature with All Atmospheres	1832 F / 1000 C
Fired Composition	BN + Proprietary Ingredients
Liquid Carrier	Water
Binder Phase	Stable refractory
BN Level	High
Color	White
Shelf Life (months)	>12
Coating pH	3-4
H F R Ratings	1-0-0
Substrate Use	All refractories

Use Notes

1. Separation will occur. Stir to remix.
 2. Remove any surface oil, dust, grease, scale, or other coating.
 3. Pack into repair area with putty knife, trowel, or fingers. Deep cracks or holes may require multiple applications.
 4. Dry at ambient or warm (200 C / 392 F) temperatures or accelerate with forced-air or low-velocity-flame drying. After the repaired area is dry-to-the-touch, it can be sanded to level. Repaired parts should be thoroughly dried before being exposed to any molten aluminum.
 5. Clean up with water.
- Prewetting the area with water is not necessary, but may be helpful on very porous refractories to prevent excessive drying of the putty. Also, wetting the putty knife or rubber applicator can help smooth the final/top surface. After drying, the surface can be sanded to level it with the rest of the area. Ideal for in-the-field application. Easy to use and clean up utensils with water. Putty spreaders with some flexibility work well; if too wide, cut them to the appropriate size. Utensils can be cleaned up with water.

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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