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Cera Mastic

Fantastic, Economical Refractory Putty for Patching, Repairing, and Filling ... Usable from 300 to 1500 C

Cera Mastic provides a ready-to-use, water-based ceramic putty patching material that can be filled into any fissure, crack or defect in refractory materials. This unique repair product is based on a proprietary mixed oxide system that is completely free of Refractory Ceramic Fiber (RCF). Cera Mastic is engineered to fill damaged areas with no sintering, shrinking or cracking with use. Adheres well to all refractory surfaces, dense or porous, and can be used as glue to join ceramic materials. Applicable for all environments from 300 C (572 F) to 1500 C (2732 F). Ready-to-use after applying with putty knife or trowel followed by drying. No special cure is needed. NOTE: This product does not contain Boron Nitride.

Key Attributes

- Very wide use temperature range, up to 1500 C
- Stable with many molten metals and glasses
- Smoothly applies and spreads easily
- Fills the damaged areas and does not sinter, shrink or crack with thermal cycling
- High adhesion to all refractory types (dense or porous) without chipping or flaking
- Can be used to join ceramic materials by curing as low as 300 C
- Excellent strength, hardness, and toughness
- Even adheres to metal surfaces at temperatures <500 C
- Does not contain RCF (Refractory Ceramic Fiber)
- Long life of the repaired areas due to inertness and non-reaction with molten materials
- Not sensitive to freezing
- May be overcoated with BN Cera Patch or BN Lubriccoat paint to provide excellent non-wetting to molten aluminum

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
- Gluing/joining ceramic materials

Sizes and colors

Standard Size: 0.6 Gallon container
Cera Mastic is a light-brown colored putty.

Safety Information

- Consult SDS before use.
- For industrial use only



Specifications

Active Ingredients	Proprietary Refractory Materials
Max Use Temperature with	
All Atmospheres	300 C - 1500 C
Fired Composition	Proprietary Mixed Oxides
Liquid Carrier	Water
Binder Phase	Stable refractory
BN Level	None
Color	Light brown
Shelf Life (months)	>3
Coating pH	3-4
H F R Ratings	1-0-0
Substrate Use	All refractories

Use Notes

1. Remove any surface oil, dust, grease, scale, or other coating.
2. If desired, can be diluted with water to a preferred consistency. If to be used above 1000 C, diluting below a 1:1 level with water improves performance.
3. Pack into repair area with putty knife, trowel, or fingers. Deep cracks or holes may require multiple applications. Clean up with water.
4. Dry at ambient for 2 hours or more ... or 1-2 hours at 100-200 C (212-392 F. 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.

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.

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