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Cera Foam

Refractory Foam-in-Place

Cera Foam provides a ready-to-use, water-based refractory coating that can be applied onto ceramic materials. Due to "chemical direct foaming" Cera Foam expands to 2.5x its size to form adherent, porous, black foam when first heated up to 700 C. Use Cera Foam where the properties of foam are desired: highly porous thermal insulation, sealing deteriorated surfaces, filling pock-marks/holes/gaps, helping to bond parts with spaces between them, etc. Cera Foam is engineered to expand to fill damaged areas and does not sinter, shrink or crack with use. Cera Foam adheres well to all refractory substrates, dense or porous. Cera Foam only requires a one-time heat-up to foam-in-place and then is usable in all environments to 800 C (1472 F). Ready-to-use by applying onto the area where foam is desired, drying, and then with a first-time heat-up the foam is formed in place.

Key Attributes

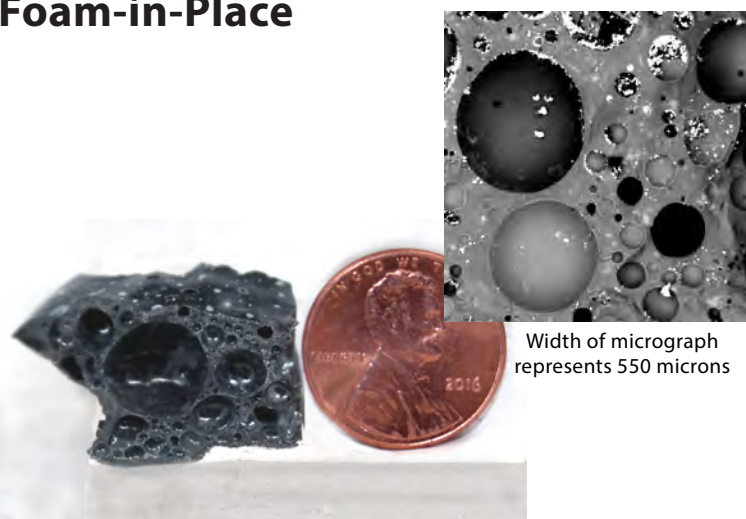
- Unique coating that foams in place, forming a high-porosity refractory foam
- Thermally insulating
- Refractory ceramic usable to 800 C
- Easy to apply at room temperature
- Expands to 2.5x its size to fill gaps, crevices and pock-marks
- Adheres to refractory ceramic surfaces

Ideal Use

- Repairing and patching refractories in furnaces
- Providing a thermally insulating surface
- Expected high emissivity due to black color should give temperature uniformity

Use Notes

1. Remove any surface oil, dust, grease, scale, or other coating.
2. Apply the paste by troweling where ceramic foam is desired.
3. Clean up with water.
4. Dry at ambient or warm (200 C / 392 F) temperatures or accelerate with forced-air or low-velocity-flame drying.
5. One-time heatup to 700 C produces the black refractory foam.



Width of micrograph represents 550 microns

Specifications

Active Ingredients	Refractory oxides
Max Use Temperature with All Atmospheres	1472 F / 800 C
Fired Composition	Proprietary Ingredients
Liquid Carrier	Water
Binder Phase	Stable refractory
BN Level	None
Color	White as applied; black foam when first heated to 700 C
Shelf Life (months)	>12
Coating pH	8
H F R Ratings	1-0-0
Substrate Use	All refractories

Prewetting the area with water is not necessary but may be helpful on very porous refractories to prevent "suck" of the liquid from the paint.

Ideal for in-the-field application. Easy to use and clean up utensils with water.

Sizes and colors

Standard Size: Quart

Cera Foam is a white-colored paste that foams-in-place when first time heated to 700C and becomes black.

Safety Information

- Consult SDS before use.
- For industrial use only

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