

Unikote 'M' Coating



Datasheet Code 5-5-01 E

MSDS Code 104-9-EURO REACH

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DESCRIPTION

Unikote M is a refractory coating material designed to provide a protective surface layer over ceramic fiber modules.

Unikote M is for medium to high temperature, gas fired furnaces where contaminants are not severe.

TYPE

Refractory coating material

CLASSIFICATION TEMPERATURE 1425 °C

AVAILABILITY

Standard sizes

5, 10, 25 and 50 kgs

FEATURES

- Easily applied over weld on or Module hot face and furnace top floors
- Adhere readily to fiber modules during the thermal cycling process
- Reduces module shrinkage by keeping the hot face "tight"
- Guards the ceramic fiber Module against metal oxide, chemical and contaminant attack
- Protects against the velocity damage and erosion from particulate matter
- Excellent resistance to chemical attack exceptions includes hydrochloric acid, Phosphoric acid and strong alkalies

APPLICATIONS

- Applied over weld on or veneering modules hot face surface.
- Used to reduce airborne fiber or other refractory particles

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MAJOR PROPERTIES

Physical Properties	
Maximum temperature rating °C	1425
Average Bulk Density kg/m ³	1105
Chemical composition (%) (IS:12107/ XRF)	
Al ₂ O ₃	>65
SiO ₂	<25
Linear shrinkage % after firing – 5 hrs (ENV 1094-7)	0.75 (At 1315°C)
Coverage (Kg / m ²)	3.8

INSTALLATION INFORMATION

Unikote M[®] is applied to the Module hot face surface either by spraying (or) brushing. It is supplied in a dry state and then mixed approximately 55% weight by water. The slurry should be roughly agitated with a power drill motor until complete mixing is achieved. The solids portion will have a tendency to settle down, brief agitation may be necessary. After installation it is recommended that UNIKOTE is allowed to air dry 24 hrs before the furnace is fired.

The values given herein are typical values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.

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