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METATRON
MINING CONSULTING
MINING SOLUTIONS WITH PASSION AND PURPOSE!

TDS – THERMABOND-120 HIGH TEMPERATURE RESISTANT TILE ADHESIVE

MMC ThermaBond 120 a two-part adhesive system designed for alumina tile applications operating at temperatures up to 120 °C.

Following mixing, the product initiates a self-post-curing process during service temperature ramp-up. A minimum curing period of 48 hours is recommended prior to placing the system into service to ensure optimal bond development and performance.

This product has been tested for hardness results for a non-post-cured 12 mm thick sample tested at 125 °C in an oven. The results demonstrated that hardness is maintained at a functional level, while ensuring reliable adhesion of bonded alumina ceramic tiles under elevated temperature conditions.

The contrasting colours of the two components are specifically designed to provide clear visual confirmation of thorough and uniform mixing prior to application. The mixed product exhibits a thixotropic consistency, allowing for controlled application and ease of placement using a notched trowel or spatula, while ensuring strong component retention during installation.

Typical applications include the installation of ceramic wear liners in metal or FRP equipment such as chutes, pipes, and agitator blades, where both abrasion resistance and thermal stability are required.

Technical Properties	
Parameter	Specification
Part A	Beige Paste
Part B	Green Paste
Mix Ratio	4 parts A to 1 part B by weight
Temperature resistance	Up to 120 Deg C
Hardness	75 to 80 Shore D
Pot Life	2.50 kg kit: 75 minutes at 25°C
Cure Time	48 hours at 25°C before elevated temperature service
Shelf Life	12-16 Months

Curing & Hardness Properties

Temperature (°C)	23	125	125
Time (minutes)	—	60	120
Hardness (Shore D)	80	74	72
Balance	Non-hazardous	Non-hazardous	Non-hazardous

