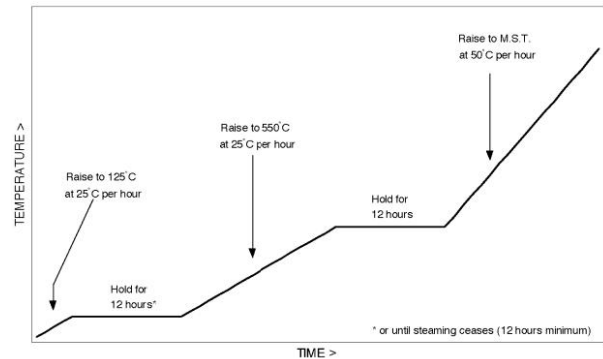


Plasgun



Product Description

A 1700°C grade plastic refractory, supplied dry and installed by conventional gunning onto hot or cold surfaces with very low rebound and providing excellent properties in service. Also suitable for trowelling.

Features

There is no need for special equipment or extremely high air pressures for the placement of this type of guniting plastic. It possesses excellent thermal shock resistance throughout its temperature range. It can also be troweled or hand rammed by adding 10 to 12% water to the dry mix in a mechanical mixer. It has excellent resistance to molten slag and thermal shock.

Installation Method

Gunning.

Datasheet

Prepared using EN BSI and ISO standard Methods.

Storage

Store bagged monolithics in a dry place, off the ground and, when possible, with the original shrink wrapping intact.

Precautions

No prewet is used with all water for placement added at the nozzle using the same techniques used in the guniting of castables. Trowel the surface only enough to make it level; avoid excessive troweling of the surface. It does not need any water curing. Do not cover with plastic or apply any membrane curing compounds. Failure to heed this warning will cause material to not gain strength properly and could cause premature loss of lining.

Applications

- Re-heat furnace walls and roof
- Replacement for conventional plastic material (preventing white finger due to ramming)

Instructions for Use

Use suitable gunite equipment, either the rotary, double chamber or batch type. Add required water at nozzle for effective placement.

Plasgun

CHARACTERISTICS	
Bond Type	Ceramo-Hydraulic
Raw Material Base	Chamotte/Bauxite
Maximum Grain Size (mm)	6
Maximum Service Temperature (°C)	1700
Bulk Density Dried to 110°C (kg/m ³)	2170
Net Material Required (kg/m ³)	2110

PHYSICAL PROPERTIES		
Test Temperature (°C)	Cold Crushing Strength (N/mm ²)	Permanent Linear Change (%)
110	10	
815	10	-0.2
1000	15	-0.3
1600	45	+/- 1.5

TYPICAL CHEMICAL ANALYSIS (%)	
Al ₂ O ₃	66
SiO ₂	29
Fe ₂ O ₃	1.2
TiO ₂	2.2
CaO	1.6
MgO	0.3
Na ₂ O + K ₂ O	0.4

THERMAL CONDUCTIVITY		
W/mK		
@ mean temp	200°C	
	400°C	
	600°C	1
	800°C	
	1000°C	
	1200°C	

MODULUS OF RUPTURE (N/mm ²)	
110°C	N/A
815°C	N/A
ABRASION RESISTANCE ASTM C704 (cm ³)	
815°C	N/A
PALLET SIZE	
kg	1200

WATER ADDITION	
% by weight	12-14
Volume per Bag (l)	3.0-3.5
Bag Weight (kg)	25

The values given herein are typical average 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 or a Compliance Data Sheet where guaranteed property specifications are required. Before using these materials, it is strongly recommended that the installer consults Thermal Ceramics manual "storage and installation manual" copies of which are obtainable from Thermal Ceramics offices or distributors.

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