

Jyalucem -20

Water resistant Low Temperature Curing cement

Jyalucem-20 is an inorganic, low temperature (200°C /392°F) curing, high temperature resistant ceramic adhesive cement. It is a sodium free cement designed for joining of ceramics whilst imparting high thermal conductivity.

After proper curing, this cement imparts high bond strength, thermal shock resistance and a hard surface with good moisture resistance.

It is available in a micro-fine dry powder, to be mixed with clean water, in the ratio as specified below:

Jyalucem-20 Powder	Water
80 parts by wt.	20 parts by wt.

Application procedure:

Mix the cement powder with water in the above-mentioned ratio to form a thick paste. For best results, let the mixture age for 72H*. The mixture will react to form a fluid paste of toothpaste like consistency over the course of 3 days. After thorough mixing and sieving the paste may be applied on clean and abraded parts. Air dry for 24 hours at ambient temperature before heat curing at 200°C for 2 hours.

Cation: it is best to raise the temperature gradually from room temperature to 200°C to prevent development of cracks in the cemented area.

*: Jyalucem-R is available in ready to use premixed form



JYOTI CERAMIC INDUSTRIES PVT. LTD.

Technical Properties

Jyalucem -20

Composition	:	>70% Alumina 5 – 10 % Talc
Color	:	White
Bulk Density (Powder)	:	0.8 g/cc
Bulk Density (Cured)	:	1.8 g/cc
Coverage	:	2.5 kg / m ²
pH	:	1
Porosity _(1000°C)	:	40 %
Shrinkage _(1000°C)	:	< 0.5 %
Thermal Expansion _(1000°C)	:	$7.4 \times 10^{-6} \text{ K}^{-1}$
Max. Temperature use	:	1000 °C
Suitable Substrates	:	Glass and ceramics.
Shelf life	:	12 months when stored in unopened, tightly sealed containers in a dry location at ambient Temperature

Kindly note that all values mentioned are based on test pieces and may vary depending on field conditions. The values are not guaranteed by Jyoti Ceramic Ind. in anyway whatsoever and should be treated as indicative only. All values refer to a testing temperature of 20°C, unless otherwise specified.

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