



Potassium Silicate Mortar

DESCRIPTION:

Its Mainly used as bedding material for Chemical Resistant Brick/Tile Lining

USES

This is a two component system consisting of powder and a solution mixed in the ratio of 3 : 1 parts: The mix ratio can be slightly adjusted ($\pm 10\%$) to suit the site conditions.

Physical Properties

Mixing ratio resin : powder	1:3	At 27 deg c
Color	Yellowish / Offwhite	At 27 deg c
Setting Time	< 3 hours	At 27 deg c
Querying Time	72 hours	At 27 deg c
Working Time	<30 Minutes	At 27 deg c
Density	2.20 – 2.3	
Packing	Powder 37,500 in bag	Solution 25 Kg & 200 Kg. in Drum
Storage Period	12 month	
Compressive Strength	>280.00kg/cm ²	
Bond Strength with ART	>5.00 kg/cm ²	
Flexural Strength	>52.00 kg/cm ²	
Maximum Toluene Absorption	25%	

PRECAUTION :

1. Tanks/Vessels lined with CEMENT PRODOR SK cement must be first filled with dilute acids and not with water alone
2. Water should not be added to the mortar to adjust workability
3. When the temperature drops below 15°C silicate solution tends to crystallize; so the working / setting time gets prolonged. Hence, it is not recommended to mix silicate mortar below 15°C
4. In case if the powder is wet, it may be dried under shade. For test purpose, small quantity of powder is mixed with the solution and if the mortar sets within the specified time, then the powder can be used
5. The prepared mortar is applied to the back and on the sides of A.R. brick / tile and pressed firmly on the surface so that the bedding is uniform.

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