



## SilicaPlast Resin based Mortar

## Technical Information

- ❖ 2 – Part Resin based Mortar for Brick and Tile Lining for protection against Acid/Alkali attacks.

### Description:

- ❖ SilicaPlast Resin based Mortar is a Resin based Mortar based on a Silicate Resin. It is resistant to most mild Acid and Alkalis and many organic solvents. It is unaffected by salt solutions, oils and many other acid and alkalis.
- ❖ The liquid binder is a Silicate resin based. The the binder is carefully controlled to ensure easy, uniform mixing with filler. The mortar cures by internal chemical action to form a non-porous mortar, which has excellent adhesion to ceramic, metals as well as concrete.

### Base:

- ❖ Silicate Resin

### Material Group:

- ❖ Mortars, Jointing Materials

### Properties:

- ❖ Excellent Protection against almost all mild Acid/Alkali attacks
- ❖ Quick Curing/Setting and Easy Application
- ❖ Extremely High Working temperature – 800 Degree

### Physical Data as Per IS : 4832 (Part I) :

Property	Value
Maximum Temperature	800 °C
Standard Colour	White
Density kg/cm <sup>2</sup>	1985
Tensile Strength kg/cm <sup>2</sup>	20
Compressive Strength kg/cm <sup>2</sup>	120
Modulus of Rupture kg/cm <sup>2</sup>	40
Water Absorption %	12
Linear Shrinkage %	0.14
Working Time at 26 °C	20 min
Setting Time at 26 °C	120 min



**NEO CHEMOFLON PVT. LTD.**

CORROSION PROTECTION SOLUTIONS

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### Surface:

- ❖ **RCC:** The RCC structures and other area should be compact and sound without any honey combings. It should be in totally leak-proof condition by ascertaining Hydraulic (Water Test) for 72 hours and if any leakages, seepages are found they are to be repaired by pressure grouting from outside.

### Packaging / Shelf Life:

Item Type	Packing Type	Content	Shelf Life
SilicaPlast Resin	MS/HDPE Drums	35/50/220 Kg	12 Months
SilicaPlast Resin Powder	Bags	50 Kg	12 Months

### Mixing Ratio / Consumption:

	Parts by Weight
SilicaPlast Resin	100
SilicaPlast Resin Powder	300

Bricks or tiles are to be applied in such a way that the thickness of bedding is min. 4 mm and max. 8 mm.

### Consumption of Mortar:

- ❖ Approx. 20 kg/m<sup>2</sup> for 20 mm Tiles
- ❖ Approx. 18 kg/m<sup>2</sup> for 12 mm Tiles

### Working Time:

- ❖ Approximately 20-25 minutes at 20 °C

### Curing Time:

- ❖ Approx. 5 hours at 15 °C
- ❖ Approx. 3 hours at 20 °C
- ❖ Approx. 2 hours at 25 °C

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### **Application:**

- ❖ Mortar is made slowly by mixing the powder into the solution. Mortar of suitable consistency for laying acid-proof tiles is prepared.
- ❖ Best results are obtained by making small batches of mortar. Joints between tiles should be as thin as practically possible, preferably 3 to 4 mm. Once the mortar has started to gel, it cannot be reworked and must be discarded.

### **Major Areas of Application:**

- ❖ Chemical Industries
- ❖ Paper- Pulp Industries
- ❖ Phosphoric acid and Fertilizer Productions
- ❖ Refinery
- ❖ Transportation and Storage of corrosive chemicals
- ❖ Auxillary areas such as Floors, Drains, Sumps, Pits, Battery Room, Pits etc.

### **Safety Measures:**

- ❖ Any material should not be exposed to high temperatures or be near any fire or flames. The solution is highly inflammable and hence activities such as smoking for lighting a fire nearby is not advised.
- ❖ Do not expose materials to heat or open flame. This applies in particular to welding works (weld beads). Avoid direct contact of the material with the skin. Wash hands with soap and water; do not clean the skin with solvents.
- ❖ Kindly go through the Mateial Safety Data sheet for further information.

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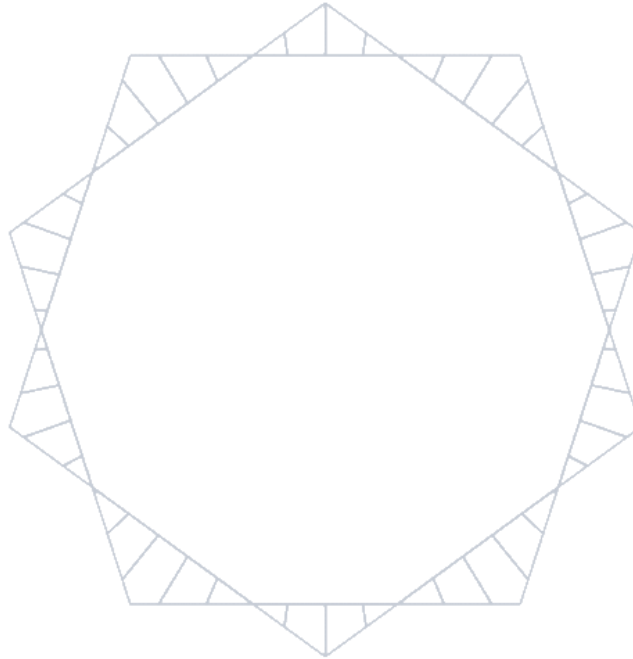
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### **Cleaning of Equipment:**

- ❖ Working tools which are contaminated with not fully cured material can be cleaned by removing the material by striking gently with hammer or by removing the material with spare Chisel or Trowel.



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