

## **DATA SHEET**

### **310** **HIGH TEMPERATURE EPOXY MORTAR**

(Page 1 of 3)

VI-28/11/2014

#### **DESCRIPTION**

- 310HT Epoxy Mortar is a heavy- duty repair and screeding system for hard wearing floor and wall areas subject to high temperatures.

#### **PRACTICAL USES**

- Floor areas subject to high traffic and chemical and solvent spillage, such as mining, water and waste treatment, paper and pulp, sugar refining, food factories, dairies and breweries. High heat distortion temperature designed for areas subjected to steam and hot water processes. Also used as a concrete repair mortar, rail grout, acid proof tile grout, and bridge nosing compound.

#### **PERFORMANCE & DURABILITY**

- Heat Distortion Temperature: > 110°C
- Compressive strength: >96 n/mm<sup>2</sup> astm 695-85.
- Tensile strength: 18 n/mm<sup>2</sup> astm d638-76.
- Flexural strength: 34 n/mm<sup>2</sup> astm d790-86.
- Bond strength: concrete fails.

#### **CHEMICAL RESISTANCE**

- Resistant to most dilute acids & alkalis, petroleum products & salt water.

#### **SURFACE PREPARATION**

- All surfaces must be clean and mechanically sound and free of oil, dirt and dust. Concrete and cement screeds to preferably have a wood float finish, with a minimum compressive strength of 25mPa. Abrasive blast, diamond grind or acid etch to remove laitance. (See “preparation of concrete surfaces” by ).

## **DATA SHEET**

### **310** **HIGH TEMPERATURE EPOXY MORTAR**

(Page 2 of 3)

V1-28/11/2014

#### **PRIMING**

- Prime with 310 Epoxy Mortar Resin @ 5m<sup>2</sup>/l.

#### **APPLICATION**

- Thoroughly mix the resin and activator in the proportions given, then add the aggregate using a slow speed mechanical mixer. Pour the mixture onto the floor to slow down the exothermic reaction. Using a screeding bar apply the epoxy screed to a nominal thickness of 6 to 12mm using a nylon or PVC float. Keep wiping the float with water. Allow to cure for at least 12 hours then seal with the specified sealer.

#### **SPECIAL NOTES**

- Allowance must be made for expansion joints. manufactures a range of joint sealants. also produces a range of non-shrink epoxy grouts for machine bedding, bolt fixing, vertical surfaces and under water curing systems.

#### **CLEANING EQUIPMENT**

- Clean equipment immediately after use with fresh water and soap or brush cleaner.

#### **TOXICITY**

- Although 310HT Epoxy Mortar is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional epoxy resin systems be adhered to.

#### **HOW TO SPECIFY**

- All areas to be prepared, primed and screeded with 310HT Epoxy Mortar to a minimum thickness of 6mm in accordance with the manufacturer's instructions.

**DATA SHEET**

**310**  
**HIGH TEMPERATURE EPOXY MORTAR**

(Page 3 of 3)

VI-28/11/2014

**TECHNICAL DATA**

<b>COLOUR</b>	: Natural Grey
<b>N°. OF COMPONENTS</b>	: 3 (Epoxy + Activator + Agg.)
<b>MIXING RATIO</b>	: 4 kgs + 1 kg + 40 kgs
<b>PACK SIZE</b>	: 20 litres ( 45 kgs)
<b>VOLUME SOLIDS</b>	: 100%
<b>FLASH POINT</b>	: > 100°C
<b>PRACTICAL SPREAD RATES</b>	: 1litre/m <sup>2</sup> /mm : 1 kit = 2m <sup>2</sup> @ 10mm
<b>POT LIFE @ 25°C</b>	: 40 Minutes.
<b>HARD DRY @ 25°C</b>	: 10 hours
<b>ELEVATED TEMPERATURE CURE</b>	: Minimum 14 hours @ 80-100°C
<b>FULL CURE</b>	: 24 Hours @ elevated temp.
<b>APPLICATION TEMPERATURE</b>	: 10 to 40°C
<b>OPERATING TEMPERATURE</b>	: -20°C to +120°C
<b>CLEANING EQUIPMENT</b>	: WSBC
<b>STORAGE TEMPERATURE</b>	: 10 to 40°C
<b>SHELF LIFE</b>	: 12 months

The technical data furnished is obtained from controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven fault our liability will be limited to the replacement of the product only. It is the users' responsibility to confirm the currency of product data sheets.