

Fire concrete

We are in the position to produce and supply fire concrete for local markets in demand. It suits for top grade high temperature resistant masonry and as excellent hydraulic binder used in refractory materials for equipment operates in high temperature conditions.

Specialty of our product

Through series of research and development, the products develop for the application requiring high strength, high quality and material suitable for extreme fire temperature ranges. Rapid mixing, rapid curing, rapid heat up, thermal shock resistant, excellent binding strength is exhibited by our products ensuring its superior refractory characteristics. Application of “LRL” fire concrete provides pleasing, smooth surface appearance while filling voids and sealing against heat losses. These qualities are guaranteed by the services rendered over three decades for long lasting performance of the equipments with less repair and maintenance having “LRL” fire concrete applications.

“LRL” supplies affirm that its products are manufactured in accordance with higher quality material specifications and are free from defects in workmanships. We believe that fire concrete trade by us having a desired range of the composition of CaO and alumina that could better withstand C-O disintegration than commonly available other products in the market. Our product is therefore, formed by high burned fire clay or kaolin, sintered alumina and possibly kyanite mixed with finely ground cement in standardized ratios.

Care before product arrival to the customer

These fire concrete is stored in air tight containers to prevent hydration and special care has been given to prevent aggregation before use.

Uses

The “LRL” fire concrete use for pelatization and complete lining with improved new application techniques. It was found possible to achieve densities as much as 5 percent higher than cast material and 50 to 100 percent higher strength.

Application procedure

Paying attention to the mixing process and keeping consistency of the product will ensure the proper refractory properties.

Mixing

1. Dry mix thoroughly to get the superior homogeneity
2. Add carefully calculated and measured amount of 12 to 15 percent water gradually to make moist and mix well to get homogeneity and desired consistency
3. Adjust the water content of the mixture to match it with the proposed application.
4. Make use the preparation within 2 to 3 hours before laps its pot life.

Application

Apply by the toweling on the surface to desired thickness as per the need arises. the surface has to be well cleaned and roughed and some refractory materials need to be moistened to facilitate cohesion before the application.

Curing

After the initial set the drying should be slow without exposing to harsh environmental conditions. Go for short small fires for the first time if firing is required and subsequent temperature increments should do gradually to avoid possible cracking and damages.

Health and safety

- Eco friendly in use
- Odorless
- Nonhazardous
- Non toxic
- Non radio active