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INSTRUCTIONS FOR PROCESSING ACIDPROOF CASTABLES

CHEMOBET K

CHEMOBET K-patch

CHEMOBET QS-K

The above chemical bonded CHEMOBET castables are materials that are resistant to inorganic acids (except hydrofluoric acid), aggressive gases SO₂, SO₃, Cl₂, CO and temperature up to 1100°C. They are not resistant to alkali solutions and vapours, permanent water and water vapour attack. The castables are supplied as a dry acid proof aggregate that is mixed with the liquid silicate REFRAFIX SK 3-1,37 binder (modified potassium water glass). The castable mix solidifies and hardens spontaneously in the specified conditions.

Typical applications

The acid proof castables are used for production of shaped pieces for linings of chimney protective sleeves, monolithic linings of industrial furnaces and other heat devices with the operation temperatures up to 1110°C.

Packing

The dry CHEMOBET castable mixes are supplied in 25kg paper watertight bags on pallets; the REFRAFIX SK 3-1,37 binder in 20kg PE canisters. The mortar and binder are to store in dry and frostless storerooms.

Material mixing

Stir the castable mix in relation given in the material sheet of the product to consistency optimal for your application. When mixing the castable mix, at first pour about nine tenths of the specified quantity of the liquid binder in the stirrer. When the stirrer is in operation, add the dry aggregate to the binder gradually. If the mixed mix is too dense for your application technology, dilute it using the binder rest to optimum consistency. The stirring time is about 4 minutes.

Installation

Install these prepared mixes according to type of the castable by vibrating, ramming, rodding, trowelling, smearing etc. At the temperature of about 20° C the processibility time of the fresh castable is about 60 minutes. At this temperature, the castable gets hardened within 1 day. During the hardening time, the castable is not allowed to be loaded or stressed. The temperature has a significant influence on the processibility and hardening times. When the temperature increases, the hardening time becomes shorter and when the temperature decreases, the hardening time becomes longer significantly. The castable cannot be processed and hardened at temperatures less than 10°C. At temperatures over 30° C, it is necessary to keep the day consumption at lower temperatures (do not leave the binder in the sun).

The lining of the acid proof castable can be subjected to operation conditions 5 days after the works are finished. Never treat the acid proof castable products and linings with water. Sprinkling is strictly forbidden. Designers or professional firms depending on the lining position, thickness, etc solves the drying and tempering of the lining.

Storage

The CHEMOBET acid proof aggregate is stored in dry and covered areas on a wood base if possible. When these conditions are observed, the shelf life in intact packages is 1 year.

Store the REFRAFIX SK 3-1,37 binder in frostless areas. Protect packages with the binder from direct solar radiation.

Health and safety protection

The dry acid proof aggregate contains irritating dust portions. When handling them dry, use a suitable respirator. The finished castable mix does not harm.

The binder is of alkali character (water glass). When working with it (pouring it), use goggles or a protective shield, rubber gloves and apron. In case of staining, rinse the affected place with a strong water flow. If your eyes are affected and irritated, rinse them with water and seek medical advice immediately.