

LAITITE – REFRACTORY CEMENT

FIRE BRICK & KILN MORTAR



DESCRIPTION:

LAITITE is a fine, plastic, air-setting refractory mortar based on suitably graded and processed refractory aggregates with the requisite chemical and ceramic bonds. LAITITE is supplied in a ready to use paste consistency, which air hardens at ambient temperatures and further hardens with application of heat to give a strong joint which exhibits low permeability to gas flow in the service temperature range up to 1400°C.

USES:

LAITITE finds a wide range of applications in furnaces or heat, or heat treatment plants, such as ceramic kilns, power plants, foundries, enamelling ovens, etc., or wherever a plastic air setting is required to operate in the service temperature range up to 1400°C.

LAITITE is used:

Straight from the container for applications such as laying, placing and jointing of firebricks and refractory shapes. Diluted with water as a protective wash - coating for furnace work and as an adhesive bond prior to patching, veneer coating etc. Mixed with refractory aggregate for application in thick joints, trowel patching, furnace wall repairs, construction of special shapes etc.

APPLICATION:

STRAIGHT FROM CONTAINER:

For thin joints (1-2mm) apply to clean, dry, firebricks. Press bricks together and trowel off extruded cement.

DILUTED WITH WATER:

Dilute with sufficient clean water to give the required consistency for brushing, bagging or spraying as a protective surface wash for furnace work or as an adhesive bond prior to patching or applying rammed linings. Apply successive thin coatings, allowing each coat to dry out thoroughly before applying next coat. Porous insulating refractory brickwork should be given a wash coating with LAITITE suitably diluted with water, and allowed to dry before proceeding to set the bricks in the normal way.

MIXED WITH AGGREGATE:

For thick joints (2 - 4mm) trowelled patches, veneer coatings, furnace wall repairs, special shapes (boiler baffles), etc., mix one volume LAITITE with half to one volume (according to thickness required) of crushed firebrick of a suitable mesh size. In all cases, apply an initial bonding coat and a final protective coat of LAITITE suitably diluted with water.

When urgent repairs are required, such as in hot patching, sealing retorts, sealing leaks in asbestos and iron flue pipes, etc, care must be taken to first heat the base work before applying a thin trowelled layer of

LAITITE mixed with the requisite amount of crushed firebrick. Allow to dry before applying further thin layers to the required thickness.

DRYING:

It is preferable to dry out LAITITE applications shortly after completion of the work. Use a slow fire bringing the temperature finally up to a minimum of 300°C. LAITITE cures as a result of moisture evaporation from the sealant and the cure rate will be significantly impaired during cold conditions. For temperature around 5°C to

18°C cold conditions where extended cure time is needed, it is recommended to preheat the surface to around 30°C before the application of LAITITE. During the extended cure time extra care must be taken to ensure the sealant does not suffer from water damage.

LAITITE will not cure at temperature below 5°C.

In order to prevent premature hardening of the cement due to exposure in the atmosphere, keep drums well sealed when not in use. When a quantity of LAITITE is left in a container, level surface off and cover with a little water before replacing lid firmly.

CAUTION:

LAITITE contains caustic alkali silicates and so care must be taken to avoid contact with skin and eyes. If splashed in the eyes wash well with clean water and seek medical attention immediately.

COVERAGE:

Quantity of LAITITE required for laying dense fire bricks-trowelled joint 200 - 250kg/1000 bricks.

PACKAGING:

LAITITE is packed in 1.75kg, 3.5kg, 7kg and 38kg plastic pails.

DISCLAIMER

Please Note: Recommendations and advice regarding the use of this product are to be taken as a guide only.

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