

# “ADCEM”

## REFRACTORY CEMENT

Generally in masonry work joint is a weaker section. ADCEM Refractory Cement is a high temperature resisting Air setting Two component system which gives strong bond to two bricks. It has Powder and Solution parts which is to be mixed in ratio of 3:1. ADCEM Refractory Cement is used for joining and laying of refractory bricks. It can be used for pointing as well as filling holes, pockets, patching etc.

ADCEM is siliceous cement without any plastic clay and has the chemical setting property. It is this specialty which makes it different from plastic clay based refractory cement. As it is air setting and there is no water addition at any point, it does not shrink on setting.

There are many advantages of using ADCEM Refractory Cement over using traditional Fireclay cement.

- (1) It is air setting and gives hard joint at room temperature.
- (2) It has high bonding strength.
- (3) It gives thin compact brick to brick joint which makes whole masonry work one solid piece.
- (4) It is extremely volume stable hence does not shrink on drying or heating.
- (5) It makes joint air tight to ensure higher thermal efficiency.
- (6) It protects fire bricks lining against corrosive action of gases, ashes and slag.
- (7) It makes refractory lining with quickness and perfect workmanship.
- (8) It does not contain water hence no shrinkage and quick drying.
- (9) It is high temperature air setting cement giving higher strength with higher Temperature.

### HOW TO USE :-

As it is two component system care should be taken while using the same. The mixing ratio of 3:1 of powder to solution should be maintained properly to obtain best results. First take 3 part powder from bag and clear it from any foreign particles like strings etc. then add 1 part solution to it and mix it properly to form homogenous pest which can be applied easily on bricks. Apply this pest in thin layer for joining the bricks and allow it to air. It will set within 2-3 hours. You can make the joint set faster by giving low external heat. The joint thus set becomes hard like stone.

### STORING :-

Two components of ADCEM should be stored in dry place away from heat and moisture. After taking out solution from carboy lead should be replaced tightly so that air does not go inside and spoil the solution. After taking out powder from bag, mouth should be packed tight with string for avoiding entry of air and moisture.

### PACKING :-

Powder in 37.5 kg.HDPE bag and Solution in 12.5 kg.plastic carboy.



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