KILN SHELL INTERNAL COATING

Product:

Ultra-ZCoat is the family name for a series of refractory coatings designed to protect the bricks, monolithics, castables, ceramic fibers and steel shells in furnaces, boilers and various high temperature vessels. Ultra-ZCoat Refractories are characterised by a very high content of zirconia and other special ceramics which imparts extremely high resistance to the aggressive environments typically encountered at temperatures up to 1900°C. Ultra-ZCoat has better adhesion than most conventional zirconia based refractories.

Industry: Cement Industry

Location: Gajambuja Cements Ltd., Kodinar, Veraval, Gujarat.
**Problems Faced:** High temperature and Chemical corrosion.

**Alkali Gases:** Sodium, Sulpher and Chlorides.

**Wear On Kiln:** Reduction in shell thickness of the Kiln.

**Remedial Solution Suggested:** Ultra-ZCoat N  
Temperature Range: Upto 1900°C  
Finish: Matt, Buff colored, Non-Vitreous

The Kiln shell is dismantled for remedial repair.
Procedure for Application

1. Surface is prepared by sand blasting upto 40-60 microns.
2. Ultra-ZCoat concoction is diluted upto 20% by water.
3. First coat is applied 1 mm thick by spatula.
4. Second coat is applied 1 mm thick after an interval of 6 hours.
5. Coverage Ratio: 2mm thickness gained by application of 4 Kgs over a 1 Sq. meter area.

Application of 1st Coat of Ultra-ZCoat
Kiln Shell after remedial repair is returned to its original position.

Benefits

1. Produced a gas tight surface and minimized energy losses.
2. Reduced the effects of thermal shock.
3. Protected the refractories against the aggressive effects of burning fuel oil, gas and solid fuels.
4. Reduced Spalling and eliminated cracking
5. Reduced Slag adhesion and increased resistance to corrosion
6. Increased the working life of kiln and reduced the costs of maintenance shutdowns.

For more information please contact info@processaids.in or visit www.processaids.in