

Coating of Coal Mill Tyre Hub

At

ACC CEMENT Limited, Orrisa

Introduction:-

Coal is the largest source of energy and majorly used as a fuel in various industries like cement & power. In order to make full use of coal and to reduce the pollution in the environment, we usually crush the larger coal blocks into the coal powder by using coal mill or coal pulverizer.



Coal Mill in Cement Plant

As Coal is very abrasive in nature therefore during pulverization of coal heavy abrasion/erosion takes place in coal mill equipments. Compression and abrasion are the primary wear mechanisms that affect the grinding elements in a coal pulveriser.

Problem in Coal Mill Tyre Hub:-

Severe abrasion took place during coal crushing or pulverizing and due to which lots of pits/holes developed on tyre hub.

Several factors will influence the type and the severity of wear. The main factor will be the quality of the coal being processed, the required capacity factor on the pulveriser, the mass flow rate, distribution, and resulting velocity profile around the bowl and pulveriser body and the orientation of the grinding elements relative to the velocity vectors.

PRODUCT RECOMMENDATION:-

CERABEAD XTREME:-

CERABEAD-XTREME, a tough composite material filled with ultra resilient, high strength to weight ratio special fibers, ceramic beads and ultra hard densely packed ceramic particles that outstands all material against erosive & pneumatic abrasive environment.

CERAMETAL-3:-

CERAMETAL 3 is a low friction corrosion resistant two component solvent-free lining compound specially designed to combat erosion/corrosion found in fluid flow environments. It is easily applied by brush or roller, keeping application cost to a minimum. It is a 'resin rich' system that 'wets out' surfaces completely thus ensuring maximum adhesion. It is the most economical chemical and corrosion resistant coating system for the most aggressive industrial environments. It exhibits excellent adhesion to concrete as well as metal surface.

Application Procedure:

A.SURFACE PREPARATION

1. Before application of any kind of coating surface preparation is must so that coating will have better bonding with the base surface. Surface Preparation is done with the help of Grinder.
2. The surface was cleaned by using Diffusion Cleaning agent before coating.



B.PRODUCT APPLICATION

Coating:-

After preparation of the surface priming is done.



Priming Images.

To give resistant against abrasion, coating is done by **CERABEAD XTREME**.



Application of **CERABEAD XTREME**



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