

# **“REPAIRING OF CONVEYOR BELT”**

**At**

**ULTRATECH**

**By**

**DIFFCOR**

## **INTRODUCTION:-**

Conveyor belt system is widely used in Cement, mining and coal industry to transfer granular material and packaged stuff. Conveyor belt feature high transfer capacity, simple structure, and easy maintenance and standardizes components. One single or multiple belt conveyors could be assembled flexibly with other transfer equipments.

The belt consists of one or more layers of material. They can be made out of rubber. Many belts in general material handling have two layers. An under layer of material to provide linear strength and shape called a carcass and an over layer called the cover. The carcass is often a cotton or plastic web or mesh. The cover is often various rubber or plastic compounds specified by use of the belt.

## **PROBLEM IN CONVEYOR BELT AT ULTRATECH BHATINDA:-**

The belt damage consisted of a deep gouge along the entire length of the 460 foot belt. It was 5.5 inches wide and varied in depth. The belt is, 460 foot, 48 inch wide, fabric carcass with 4 plies. The damage went through the first two layers of fabric, and the third layer was exposed and deteriorating rapidly due to the highly abrasive nature of the material conveyed. The belt would need to be replaced within 3–6 months unless the protective rubber layer could be repaired. Replacing of belt was very costlier.



## **PRODUCT RECOMMENDATION:-**

### **FLEXIMETAL:-**

- FLEXI-METAL is an exceptional cold vulcanizing process for repair and rebuilding of flexible components.
- Easy to use with simple mixing ratio allowing only sufficient material to be used for each repair minimizing wastage.
- It forms a tough elastomeric repair with no shrinkage and when fully cured. It has a Shore A Hardness of 60 plus, superb elastomeric properties with unbeatable tear strength.

### **APPLICATION PROCEDURE:-**

- Before application of any kind of coating surface preparation is must to activate the base metal so that coating will have better bonding
- Oil /Grease/Dust surface contamination were cleaned.
- To achieve coarse profile surface was abraded using pencil grinder.

### **PRODUCT APPLICATION:-**

After completion of surface Preparation the **FLEXIMETAL** is mixed with prescribed ratio and applied a thin successive layer and also applied the second coat after it get tack free.

**APPLICATION PHOTO:-**



**ACKNOWLEDGEMENT:**

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