

APPLICATION REPORT
SPIRAL CHUTE COATING
AT

**ULTRATECH CEMENT LIMITED (UNIT:ADITYA CEMENT WORKS)
ADITYAPURAM, SHAMBHUPURA, CHITTORGARH , RAJASTHAN.**





INTRODUCTION:

Material handling involves the movement of material, manually or mechanically in batches or one item at a time within the plant. The movement may be horizontal, vertical or combination of horizontal or vertical. Material handling is concerned with motion, time, quantity and space. Spiral chutes are used for handling cement bags for loading in dispatch. Spiral chutes provide gentle handling of products that are more prone to damage while conveying.

PROBLEM OCCURS IN SPIRAL CHUTE:

- 1) Tear of bags.
- 2) Jamming of bags.
- 3) Loss of cement.
- 4) Delay in dispatch
- 5) Generation of dust due to pouring of Cement.

: PRODUCT RECOMMEND:

DIFF EZ Slide -1:

It is a strong polymeric bonding system penetrates the prepared base surface and form strong adhesive bond with DIFF EZ SLIDE-2, DIFF EZ SLIDE-3. Thickness of DIFF EZ SLIDE-1 is maximum 100 micron.

DIFF EZ Slide -2:

It is a main composite matrix that absorbs the energy of sliding bag and Ceramic matrix withstands abrasive wear. Product is toughened composite to take impact and sliding abrasive which is not found with other abrasive resistant hard ceramic material. The DIFF EZ SLIDE-2 also enhances the passage of bag in comparison to elastomeric coating. Thickness achieved of DIFF EZ SLIDE-2 is 2mm thick.

Diff EZ Slide -3:

It is design to give the support to DIFF EZ SLIDE-2 while application & settlement of product. In due course of time DIFF EZ SLIDE- 3 is exposed which take care of all performance property. Thickness of DIFF EZ SLIDE-3 is maximum 300 micron.

:APPLICATION PROCEDURE:

SURFACE PREPARATION:

1. Before application of any kind of coating surface preparation is must to activate the base metal so that coating will have better bonding.
2. The surface preparation is done by grid blasting.



AFTER GRIT BLASTING OF SPIRAL CHUTE

MATERIAL APPLICATION:

1. After surface preparation priming is done by DIFF EZ Slide-1.



APPLICATION OF DIFF EZ-SLIDE-1 AS A PRIMER

2. For resistance against abrasion application of **DIFF EZ Slide-2** after priming.



APPLICATION OF DIFFEZ SLIDE-2

3. Top coat of **DIFF EZ Slide-3** is applied to give anti-stick and smooth surface.



APPLICATION OF DIFFEZ SLIDE-3



AREA ENGINEER:

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APPLICATION TEAM:

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