

BELZONA STANDARD PROTECTION OF SCREW CONVEYOR FOR SOAP PRODUCTION

CUSTOMER

Soap and Detergent Producer, Bulgaria

APPLICATION DATE

September, 2008

APPLICATION SITUATION

Silumin worms (screw conveyors) for soap production facility. These are used for extruding soap and referred to as a "plodder".

PROBLEM

Erosion/corrosion causes pitting damage on screw conveyor surface accentuated by the high working temperatures (more than 60°C), high pressure injection and corrosive chemical process media.

PRODUCTS

Belzona® 1111 (Super Metal)

Belzona® 1392 (Ceramic HT2)

SUBSTRATE

Silumin (High strength Aluminum alloy with Silicon)

APPLICATION METHOD

Application was carried out in accordance with Belzona Know-How System Leaflet SHM-14. Surface preparation was made in accordance with the Colgate-Palmolive procedure in Belzona approvals (Refurbishing and Coating Silumin Worms for Soap Plodders).

BELZONA FACTS

Two screw conveyors with OD 250 mm and 300 mm were protected with a third to be completed. Inspection review two months after application revealed only slight discolouring and loss of gloss. Belzona is routinely specified by this International soap producer for protection of these screws.

PICTURES

1. Surface damages repaired with Belzona® 1111
2. First coat of Belzona® 1392 (red) completed
3. Second coat of Belzona® 1392 (grey) completed
4. Inspection of screw after two months in working conditions



1.



2.



3.



4.

For more examples of *Belzona Know-How In Action*, please visit <http://khia.belzona.com>



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