

# Belzona Protects a Screw Conveyor within a Petrochemical Refineries' Wastewater Facility.

ID: 9117

Industry: Chemical & Petrochemical  
Application: SHM-Solids Handling Machinery

Customer Location: Rouen, France  
Application Date: August 2022

Substrate: Carbon steel  
Products: Belzona 1341 (Supermetalglide), Belzona 5811 (Immersion Grade)

## Problem

The screw conveyors transporting solid waste matter separated from water within a Wastewater treatment facility, suffered daily abrasion whilst in operation, causing the screw fins to be damaged. Additionally, the screw trough was badly abraded leading to efficiency losses due to too large a tolerance between the screw trough and screw fins.



Screw during the Belzona 1341 application.

Screw & trough once completed.

Screw & trough once put back into service.

## Application Situation

Screw conveyor within a Petrochemical Refineries' wastewater management facility.

## Application Method

The screw trough was coated using Belzona 5811, an immersion-grade epoxy barrier coating, prior to being overcoated by black paint for aesthetics. The screw was also coated with an epoxy coating Belzona 1341, however, the latter is designed to increase the efficiency and reduce waste material drag. The application was carried out in accordance with Belzona System Leaflet SMH-14.

## Belzona Facts

The Belzona Distributor was able to provide a turnkey solution in a fraction of the time and cost of buying a new screw & trough, therefore, eliminating any further future downtime expected.

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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