

BELZONA SEAMLESS ROOFING FOR SUBSTATIONS

CUSTOMER
Refinery, UK

APPLICATION DATE
2009

APPLICATION SITUATION
Flat asphalt roofs over plant electrical substations. The roof illustrated here was the first of many refurbished on site and comprised 18mm chippings over an asphalt deck totalling 260 square meters with extensive lichen and moss growth.

PROBLEM
Leaks in problem areas of the substation roofs were concerning management due to the potential to shutdown large sections of the plant. These flat roofs were typically 30 years old and previously protected with asphalt or bitumen felt. Tests with alternative roofing systems had not provided adequate protection due to not being ideally suited to sealing complex areas such as vents.

PRODUCTS
Belzona 4141 (Magma-Build)
Belzona 3131 (WG Membrane)

SUBSTRATE
De-chipped asphalt

APPLICATION METHOD
Application was carried out in accordance with Belzona Know-How System Leaflets RPA-1, RPA-2, RPA-6, RPA-8, RPA-10 and RPA-11 to address the many different situations.

BELZONA FACTS
The client's biggest concern was that failure of the roofing would result in significant safety and operational problems due to the high voltage electrical equipment. The roof was fully reinforced to create a completely seamless membrane that offers over 20 years durability. The Winter Grade system proved to be a real advantage whilst applying the materials during the typically wet UK weather. During 2009, 14 substation roofs totalling over 2200 square meters were protected with applications continuing throughout the winter months.

- PICTURES**
1. Substation flat roof
 2. Asphalt de-chipped
 3. New vent detail of finished system
 4. Completed roof fully protected with Belzona 3131



1.



2.



3.



4.

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