

Belzona 3121 (MR7) Seals Against Water Ingress on Food Mixers

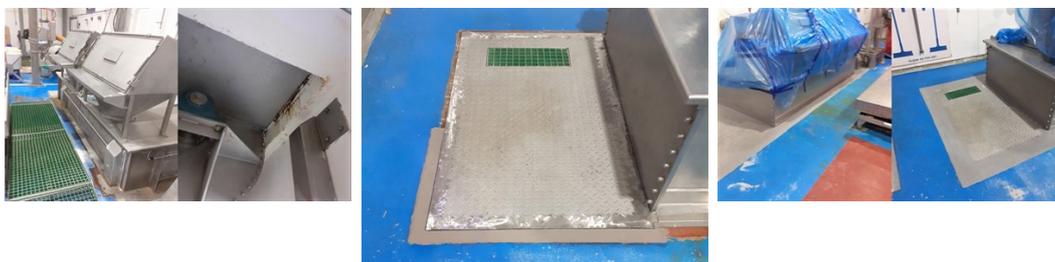
ID: 8531

Industry: Food & Drink
Application: FPA-Floor Problem Areas
Substrate: Concrete, Stainless Steel and Aluminium
Products: * Belzona 4911 Conditioner, ,
* Belzona 4131 Magma Screed & ,
* belzona 3121 (MR7) ,

Customer Location: Food Flavourings Manufacturer - UK
Application Date: June 2021

Problem

Attempts at an effective seal that could be broken and resealed again had been unsuccessful. During washdown water would sometimes leak on to the floor below and spoil the final product. The existing seal would be periodically replaced and this procedure took many hours to complete as the seal had to be fully removed and replaced. The time taken to replace the seal was problematic for the client as the mixers were run regularly and had very little idle time.



Photograph Descriptions

- * Picture 1: Mixer with old seal around the base. ,
- * Picture 2: Underside of the mixer showing water ingress from above. ,
- * Picture 3: New seal, using Belzona 3121. ,

Application Situation

Floor set ribbon mixers are loaded with un-mixed product from the top and mixed product is released into a bin situated under the mixer on the floor below. A thorough washdown is done between each batch and periodically the side checker plates have to be removed for maintenance, then replaced and resealed.

Application Method

Belzona 4911 Conditioner & 4131 Magma Screed was used to bring the floor flush to the edge of the floor plates, to remove the "leading edge" that would take the brunt of the damage when pallets were placed next to the mixer. Belzona 3121 (MR7) was used to make a sealing membrane around the mixer after grinding off the checker pattern around the edges of the side plates

Belzona Facts

The existing sealing system failed regularly and required many hours of work by a team of 4 to 6 people to replace. The Belzona

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FS 695214
ISO 14001:2015
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solution was installed over the existing seal, which saved many hours of work. While the New seal is more vulnerable to damage, as it is exposed, it can be easily and quickly be patch repaired, unlike the old seal. Also the seal around the side plates can easily be cut away with a knife to allow removal for maintenance and easily re-patched.

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