

Case Study: 17719 Replacement of Resin Floor in Production Area



Value
£240,000



Location
Food Factory, Slough



Contract Length
2 months



Types of Work Involved:

Heavy Duty Resin Flooring / Grinding / Refurbishment / Diamond Drilling & Cutting / Drainage

The Task:

A new heavy duty resin floor was required in the centre of a fully operational sweet factory. The floor was to be a seamless, hygienic, hard wearing and heavy duty floor. The subfloor needed to be repaired where necessary and drainage removed and replaced where necessary. Manhole covers required replacing where necessary.

The Problem:

The major problems with this type of work involve protecting the food product in areas around the site while building work is in operation. This includes keeping clients staff segregated and safe from the work area, with as little disruption as possible to enable them to continue production at optimum levels.

The Solution:

The site setup was key here and consideration was given to the potential problems highlighted in the planning phase by fully segregating the site using a scaffold structure surrounded in flame proof sheeting. The air in the new tented area was then controlled by extraction fans in a system designed to create negative pressure to remove any air particles and stop contamination. Barriers and site signage were also put in place.

A survey of the floor was carried out and the damaged areas were highlighted. In the areas with poor substrate or where drainage needed removal these areas were removed and backfilled using concrete or screed as required. Drainage and manholes were installed as per the specification with the surface of the manhole infilled to bring up to substrate level. In areas slightly below the required depth an epoxy industrial top was laid to make up the floor and to level all areas. Finally in all areas including where the substrate was adequate the floor was ground using an HTC floor grinder and

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The Solution:

extraction unit to remove any laitance and ensure there is sufficient bond when the floor is primed.

After epoxy priming, the epoxy resin Mondéco Earth floor was laid to product specification and to existing floor level as specified by the client. The surface of the cured Mondéco Earth was then dry ground using a heavy diamond grinder with 25 grit diamond tools before a second grind with 100 grit diamond tools was done. Grout was applied to fill in pin holes, then the area ground again to remove any surplus. Finally two coats of sealer were applied to finish the floor. The area was cleaned thoroughly and then careful removal of the safety sheeting was carried out whilst ensuring no contamination of surrounding areas.

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