

Fast cure resin floors for Asda Plymouth

Gemstone were chosen to remove the existing damaged vinyl flooring and replace it with a hard wearing, fast curing and decorative resin flake system all in one night, which also included installing protective sheeting and forced ventilation to prevent any odours escaping into the main retail store where 'colleagues' were working packing shelves for the next day's trading.



Pictures show the extent of the damaged floor that was both unsightly and a trip hazard to staff and shoppers. This is the main gangway from the warehouse into the main shop, so is heavily trafficked by product trolleys and staff. Having already replaced the vinyl a couple of times in this area, Asda decided to invest in a hard wearing resin system that could take the abuse.

The Flake system was chosen based on its performance in other Asda stores and elsewhere in the country where durability, appearance, speed of cure and longevity were important.

The main features of the system are as follows:

1. Fast 45 minute full cure per layer.
2. Fast track installation system overnight with no interruption to trading.
3. High surface compression (60-70N/mm²) making it tough and easy to clean.
4. Seamless system with no layers or joints.
5. Chemically cured system that is inseparable from the sub-floor, so no delamination issues.
6. 20-30 year lifespan.

The following pictures demonstrate how the area is isolated to protect the workforce, staff and shoppers in a 24 hour store.



The vapours are vented out of the building using large fans connected to 1m diameter plastic tubing with more fans blowing air towards the exit as shown above.

The Flake system is a 3 layer system that includes the following processes:

1. Grinding existing floor to remove laitance and contamination
2. Installation of primer to soak into substrate (concrete)
3. Self-levelling Body coat laid
4. Paint flakes broadcast into wet resin
5. Floor lightly sanded to de-nib surface
6. 1st seal coat applied
7. Floor sanded again if very smooth finish required
8. 2nd seal coat applied

The floors are fully cured and ready for heavy traffic between 60-90 minutes after the final seal has been applied.

The pictures below show the finished floors.

