

NCC's Resin Flooring Site –

www.resinflooringsite.co.uk

Polyurethane Resin Based Flooring Materials

Polyurethane Resin Flooring Systems or PU Resin Floors, as they are often also known, are available in different types: there are both one and two component materials and these can both also include solvent-free, solvent based and water based polyurethane resin flooring products.

One-component PU Flooring Products:

The one-component / single pack, water based PU resin floor products are not of sufficiently good performance and durability for Resin Flooring Site to recommend them over the now excellent water based epoxy resin flooring products for example. These one-component, polyurethane resin floor materials are of relatively low mechanical strength, limited adhesion, and are problematic to apply on concrete floors due to their moisture-sensitivity. Many PU Flooring Products sold to the domestic and trade markets are also not really PU resin materials, but they are actually cheaper and lower performance acrylic and alkyd resins, blended with a small amount of polyurethane resin – Do not use for any industrial or commercial flooring application.

Solvented One-pack Polyurethane Resin Floors:

The solvent based polyurethane resin floors do perform well in service, but they have all of the same application difficulties and restrictions for their use as the solvented epoxy resin based flooring products. i.e. high levels of VOC's released into the air, that are potentially dangerous or at best very inconvenient; plus they require extensive preparation for maintenance and over-coating. Therefore at this time we do not recommend solvented polyurethane resin floors for most internal applications on floors. - Although we regularly recommend and supply them for external use in the joint sand stabilising and sealing of block paving for example – Please visit our sister site www.nccstreetscape.co.uk/BlockPavingSealers.

Two-Pack PU Resin Flooring Materials:

Two component PU Resin flooring materials are predominantly high build coatings, which themselves are now nearly all of the modern solvent-free type, which have excellent wear and chemical resistance. Solvent-free two-pack PU Coatings can also need a pre-treatment to ensure that they bond to dense substrates – In fact these PU resin floors are usually applied to concrete substrate surfaces that have first been sealed with a clear, penetrative epoxy primer that penetrates and ensures adhesion of the material.

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High Performance PU Resin Screed Materials:

The best known 2 component polyurethane flooring systems are actually the highly filled PU resin and cement based trowelled screed types, such as the excellent Ucrete and Sikafloor Purcem, which are both normally applied at 6 to 9 mm thickness to produce heavy duty PU resin screed floors, with high impact and abrasion resistance, excellent chemical resistance and also high thermal shock resistance i.e. to frequent steam cleaning for example.

These high performance PU resin screed materials are therefore ideal for use in high performance resin flooring applications for the food and beverage industries in particular. Another of these PU screed advantages is their tolerance of damp substrates for application, which therefore also makes them extremely suitable for the essential maintenance and upgrading of facilities which are still in production, as well as for the resin floors on new construction projects.

If you would like help and assistance with your specific PU screed flooring project requirements, **please call any of our offices and one of our resin flooring specialists will be pleased to advise and assist you.**