

NCC's Resin Flooring Site –

www.resinflooringsite.co.uk

Solvent-Free Epoxy Resin Based Flooring Materials

Solvent-Free Epoxy Resin Flooring materials contain no solvents or water as diluents and are therefore 100% solids, consisting solely of the epoxy resin and other special ingredients that react to form a high build, dense, vapour-tight and extremely water-proof film when cured. This means that solvent-free epoxy resin flooring products have much higher epoxy resin contents and so they can also be used in much thicker layers and therefore will provide higher performance and protection for the floor.

Unfortunately, perhaps the one disadvantage is that as a consequence of this much higher epoxy resin content, solvent-free epoxy flooring products are more expensive and generally only used for professionally applied flooring projects. They are designed for use in areas with more demanding and higher performance requirements i.e. in factory process and production areas with increased traffic, abrasion or liquid chemical exposure for example.

Resin Flooring systems with Solvent-free Epoxy Resin Materials:

Due to a generally higher viscosity and thicker consistency, solvent free epoxy resin products require very thorough 'compulsory' mixing prior to their application. This lack of solvent or other diluent that has to escape from the material during curing, solvent-free epoxy resin flooring materials can be applied by several different methods and system build-ups as well as high build coatings and broadcast systems. These flooring system build-ups include, applications as self-smoothing / self-levelling flow applied floors, or as more highly aggregate filled, trowel applied floor screeds.

Priming for Solvent-free Epoxy Resin Flooring Materials:

For solvent-free epoxy resin flooring systems on porous concrete floor substrates may first need to be sealed or 'primed' with clear grades of the same or similar solvent free epoxy resin product as the primer. This is to seal the prepared surface and prevent any blistering or bubbling in the finished resin floor due to rising air and / moisture from the substrate. The clear grade of the solvent-free epoxy resin flooring material is used to obtain adequate penetration and adhesion without wasting expensive colour pigments in the substrate where they will not be seen.

Solvent Free Epoxy Resin Flooring products are usually only recommended for use by professional Resin Flooring Contractors, however where appropriate for specific project requirements, we can also provide guidance and support for their use by competent general contractors and facilities maintenance crews.

As with all resin flooring solutions, we can also provide you with the names of

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experienced resin flooring contractors (Our network of National, Regional and Locally operating resin flooring specialists are located throughout the UK), who will be pleased to provide you with a quotation and guarantee for carrying out all of your resin flooring works professionally and to our agreed specifications. Please also refer to the [Specialist Resin Flooring Contractors](#) page of this website.

NCC Resin Flooring Site also provide specialist advice and can supply special solvent free epoxy resin floor products for a number of very specific applications and industries, such as for use on concrete floor surfaces in contact with potable (drinking) water. We also provide 'tailor-made' resin flooring systems with extreme and specific chemical resistance, such as for ultra-hygienic process areas and clean room production buildings, or even to be provide decontaminable resin floors for use in nuclear power plants and resin floors for other nuclear processing facilities.

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