

NCC's Resin Flooring Site –

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Water Based Epoxy Resin Flooring Materials

Water Based Epoxy Resin Flooring materials and systems are now becoming increasingly popular as the technology of 'water based', or as it should more correctly be known 'water dispersed' epoxy resin flooring technology, has greatly improved in recent years. – Remmers from Germany, is a clear technology leader in this field, which is why we generally prefer their advanced range of extremely durable and colourfast, water dispersed epoxy resin flooring products. Sika is also a major international producer of good water dispersed epoxy resin flooring that we can also recommend.

Advantages of Water Based Epoxy Resin Flooring Materials:

The main advantages of the water based / water dispersed epoxy resin floor materials, is that they contain no dangerous solvents, or VOC's (Volatile Organic Compounds) as they are also now referred to, so therefore they can be used safely in occupied areas, or where people and other trades are working immediately adjacent to the area being treated. Plus they are not sensitive to naked flames and very importantly for many industries and businesses, they will not contaminate foodstuffs or beverages.

The performance of all water based epoxy floors against mechanical abrasion and chemical attack, whilst now good for the Sika and Remmers products, is still somewhat lower than that provided by good quality and higher build, solvent free epoxy resin products (normal dry film thickness applied >300 Microns per coat versus the 100 to 150 microns applied with water based epoxy resin flooring products) – However the high quality Remmers and Sika water based epoxy resin products are very definitely ideal for many domestic, commercial and light industrial, high build resin floor coating jobs (Resin Floor Classification Types 1, 2 and 3) - These can include all kinds of garage floors, workshop floors and factory assembly, storage and distribution areas etc.

Water based epoxy resin flooring materials have another distinct and important advantage over other solvent and solvent free epoxy flooring materials, which is that whenever their refurbishment and over-coating is eventually necessary, then only minimal surface preparation (cleaning) of the existing surface is necessary. As opposed to the thorough mechanical surface preparation (keying) that is necessary to overcoat solvent containing and solvent free epoxy resin floors. Additionally due to their non-taint and no VOC contents, water based epoxy resin floor coatings can again be maintained and overlaid without disruption or danger; this is particularly important when there are any other trades and people working in the same or adjacent areas.

Therefore in many instances the best water based epoxy resin floor coatings are advantageous and have considerable advantages over any solvent containing products,

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including using a much safer product and one that is readily available in almost any colour. Additionally for projects where a resin floor coating and / or broadcast system is perfectly adequate to meet the service performance requirements, then these water based epoxy resin flooring materials will perform extremely well for a long time, they will allow easy over-coating with refresher coatings of the same product to be applied, whenever they are required - And all with the minimum of surface preparation, disruption and cost.

Remmers BS 3000 or Sikafloor 2530W water based, epoxy resin based floor coating systems are both therefore absolutely ideal to meet the higher performance floor painting and high build floor coating requirements of garages, workshops, light traffic production assembly and storage areas - together with many other applications.

If you would like help and assistance with your water based epoxy resin flooring, **please call any of our offices and one of our Resin Flooring specialists will be pleased to assist you.**