

NCC's Resin Flooring Site –

www.resinflooringsite.co.uk

Resin Flooring Materials: The Alternative Resin Types Available

Resin Flooring Materials are produced from several different synthetic resin based floor finishing technologies that are predominantly reaction hardening, which means as the result of mixing two or more components together. This is usually done with low speed mechanical mixing equipment and in a defined mix ratio, for a defined time, shortly before they are applied. One or single component resin flooring materials are not generally suitable for use in industrial and commercial flooring applications, due to their lower inherent strength, mechanical and chemical resistance.

Two Component Resin Flooring Materials:

The most commonly and widely used resin flooring material technologies used in the UK include 2-part epoxy resin flooring systems, 2-part polyurethane resin flooring systems and 2-part acrylic (MMA type) resin flooring systems.

All of these different '2-part' synthetic resin flooring systems, or '2-component' resin flooring materials as they are more correctly known, are all supplied to site in two separate pre-batched or bulk containers. These components of the system commonly referred to as the 'resin floor base' and the 'resin floor hardener' or 'resin floor catalyst' are then required to be thoroughly mixed together on site. Then the prepared resin floor material is applied onto the prepared concrete floor substrate within the products defined 'pot-life', meaning its 'working time', before it has become too thick or otherwise unworkable and so can no longer be applied.

The two components of the products begin to react together as soon as they are mixed and then harden in a defined time period (at given ambient and substrate temperatures and humidity's) to form a durable resin floor system build-up component or the complete resin floor system. This reaction / hardening time is also referred to as the resin floor materials 'curing' time and this is the length of time before the floor can be put into use. This curing time also, varies according to the type of resin and the specific resin flooring products formulation and the environmental conditions, particularly again the temperature and the humidity.

Typically this initial curing time can be , from 1 to 24 hours, with the products full chemical and mechanical / abrasion resistance being achieved in from 1 to 7 days curing time – again dependent on the resin type and the specific product formulation. A full understanding of the site, the environmental conditions, and the resin flooring materials application and performance is therefore essential for a resin floor system's successful installation.

The resin flooring specialists at NCC's Resin Flooring Site can advise you on the most suitable resin flooring type and the best specific resin flooring product(s) for your specific project needs. **Please call any of our offices for specific assistance from our resin flooring experts.**

This generic information on the different types of resin flooring materials technologies, is intended to provide you with an overview of the typical and characteristic properties of each of these different type of synthetic resin flooring materials and help you to understand the alternative possibilities available. In the following pages we will review and discuss each of these resin flooring materials technologies in more detail, together with their main advantages and any limitations in relation to their use in the resin flooring system solution for your project.

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If you would like any additional advice or assistance for your resin flooring project then please call any of our offices and one of our resin flooring experts will be delighted to assist you. At Resin Flooring Site we provide detailed advice and can supply a full range of the best performing resin flooring technologies and systems that are available today.