

# ***NCC's Resin Flooring Site –***

**[www.resinflooringsite.co.uk](http://www.resinflooringsite.co.uk)**

## **Polyaspartic Resin Flooring Systems**

Polyaspartic resins are similar and related to the Polyurea resins and technically they are also a type of elastomeric resin derived from the original chemical reaction product of a polyol and an isocyanate component through stepped polymerization. It was again only in the 1990's that the current type of advanced two-component Polyaspartic resins i.e. they are also VOC-Free Polyaspartic Aliphatic Polyurea resins, - So in essence, all polyaspartics are a polyurea, but not all polyureas are a polyaspartic – The class of these materials promoted for flooring applications basically slows down the really rapid cure rate of a polyurea, so that the Polyaspartic systems allow more time for application and finishing – generally with a reaction time adjustable from around 10 to 120 minutes. Thus making them significantly faster than typical epoxies and PU's, but they are not so rapid and somewhat 'uncontrollable' as the polyurea's – equally importantly meaning that: **POLYASPARTIC RESIN FLOOR SYSTEMS DO NOT NEED EXPENSIVE AND SPECIALIST EQUIPMENT FOR APPLICATION.**

These Polyaspartic resin flooring systems were first introduced after the polyureas developed by Texaco (now Huntsman Chemicals) in the 00's and their application for industrial flooring is becoming increasingly more widespread. Specifically due to their fast reaction curing and hardening (significantly better than epoxy resin systems), with relative low sensitivity to moisture (significantly better than polyurethane resin systems), the ability to be brush or roller applied as well as by spray, then resulting in a fast curing, abrasion and chemically resistant floor.

Voelkel Industrie Produkte GmbH. (VIP), which has focused more on the site application of these systems and developed their range of products, specifically for this purpose, over the last 10 years. VIP now work exclusively with NCC as their agents and distributors of their Polyurea and Polyaspartic resin flooring products in the UK.

The specialists at NCC can advise you on the most suitable polyurea and polyaspartic resin systems, advise on trained Specialist Contractors (please also see the 'Specialist Contractors' Page of this website), for your specific resin flooring project. Please call any of our offices for assistance from our experts.