

# THE FUTURE OF FLOORING AND PAINT RESIN IS HERE

SPIDER Resin™ is designed for indoor/outdoor applications for coatings requiring low toxicity, durability and water resistance properties.

Contact: info@spiderresin.com

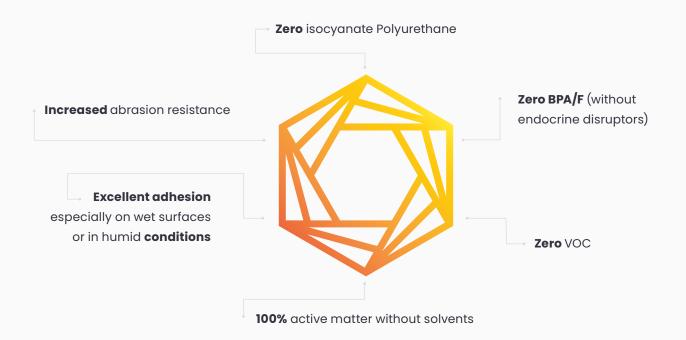
## THE PRODUCT

SPIDER Resin<sup>™</sup> is a patent pending, modified resin that has zero VOC and zero BPA/F.

SPIDER Resin™ when combined with hardener, creates an Isocyanate free Polyurethane resin system. SPIDER Resin™ designed for indoor/outdoor applications for coatings requiring low toxicity, durability and water resistance



SPIDER Resin™ complies with REACH guidelines to be classified as a Polymer.



# **ADVANTAGES**

• Zero BPA/F (without endocrine disruptors) • Zero isocyanate Polyurethane • Zero VOC • 100% active matter without solvents • Excellent moisture and chemical resistance • Excellent adhesion properties even on wet surfaces or in humid conditions • High impact and tensile strength • High gloss and color retention • Low viscosity • Easy cleaning • No ADR transport regulation for road transport (resin only)

# **APPLICATION**

Spider Coatings can be applied to many surfaces including metal, concrete, wood, gypsum, ceramic tiles and VCT and is particularly useful on applications requiring higher safety and sanitation standards, and in heavy traffic on corrosive surface areas requiring excellent adhesion.



**Flooring** 



Waterproofing



**Paint Systems** 



**Electrical Potting** 



**Resin Bound** 



Low to Medium Voltage



**HIGHLY FLEXIBLE** 

# ATTRIBUTES\*

Sulfuric acid 10% H2SO4 Gloss reduction Sodium hydroxide 10% NaOH No effect Motor oil No effect Brake fluid No effect Aviation hydraulic fluid No effect 42 - 90 Shore D Hardness Tensile strength 16 MPa Elongation 62% 180 Bend test Pass

### **PULL OFF TESTING**



- Spider Resin samples Part A & Part B
- Small mix prepared using 100 Part A to 35 Part B by weight mix ratio Drawdown @ 100 micron - gloss 90.9%
- Drying time @ 75 micron approx. 5.5 to 6 hour



Concrete paving slab – top surface abraded with grind stone to remove excess laitance, dampened to remove residual dust and left to dry overnight



Another mix of resin prepared and applied to concrete @ 100 micron and left to cure over weekend



Surface of resin film and of 5 x 20mm pull-off dollies prepared, before dollies applied to resin film using Araldite Rapid adhesive. Left to cure for 4 days

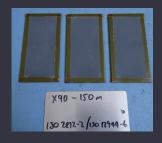


Using 20mm cutting tool, the coating around the edges of the dollies were cut through, and excess adhesive and debris removed

# SALT SPRAY / IMMERSION TESTING IN ZINC PRIMER WITH SPIDER RESIN



80 Micron Plate after C5H ZX90-80 Micron -ISO 9227 -1440 hours -C5H



80 Micron Plate after IM3 - 4000 Hours Salt water immersion Test Dollies then removed using DeFelsko AT-CM
Adhesion Tester Pressure Gauge, in accordance with **ASTM D7234:19** 

#### **RESULTS**



**Dolly 1** - 7.4 MPa



**Dolly 2** - 9.8 MPa



**Dolly 3** - 8.6 MPa



**Dolly 4** - 9.8 MPa



**Dolly 5** - 8.7 MPa



Average - 8.86 MPa