

Technical Data Sheet Flooring Resin

Product Name:	Synthepol P310 Orthophthalic Resin
Product Code:	P310 and variants
Uses:	Polymer Concrete Floor Toppings
Company:	H S Composites
Address:	63 Hunua Road, Papakura, Auckland 2110
Telephone:	+64 (09) 295 2200
Email:	sales@hscomposites.co.nz
Website:	www.hscomposites.co.nz

Features

Gives a rapid wet out of the matrix. Offers a rapid cure. Can accept high levels of suitable fillers. Protects floor from moisture damage.

Directions for use

Synthepol P310W should be catalyzed with 1 - 2% MEKP M50 and mixed thoroughly before application. The rate of catalyzation can be varied to adjust the gel time and cure but not below 1%. For the best results the workshop should maintain a temperature above 15°C to ensure that a satisfactory cure can be obtained, workshop heating may be required during colder months to maintain a temperature above 15°C.

Concrete should be sufficiently stable, clean, dry and uniform. The concrete itself must be amenable to bonding. Loose debris, residual grease, paints and dirt can all interfere with bonding, as can moisture. The surface should present itself as being clean, dry and mildly roughened.

Take care to confirm that it has a low moisture content. Fresh concrete is notorious for high levels of moisture and can take 4 – 6 weeks to fully dry without accelerated drying. Likewise, it is also possible that existing concrete has been contaminated with water or other chemicals. Moisture itself interferes with chemical bonding, particularly for resins and adhesives. Concrete is porous and has small cracks by default. The polyester resin used in the laminate is viscous and cannot easily penetrate small pores and cracks. It is preferable to apply a layer of less viscous resin in advance.

If multiple coats are to be applied Unwaxed version should be used for first coats before the waxed version P310W is applied for the final coat.

If adding extra promoters or aggregate test panels should be made to check products performance before applying to floor.

Typical Properties

Appearance	Pink clear liquid.
Viscosity at 25°C	3.0-3.5 poise (Brookfield RVT Sp3/100)
Specific Gravity	1.13
Gel time at 25°C with 1% MEKP M50	8 to 12 mins
Flammability	High
Barcol Hardness	45
Flash Point	31°C.
Heat Distortion Temp (HDT)	67°C

Storage

Store in a secure area in closed container away from any heat source, ignition source and out of direct sunlight, store below 25°C. Storage stability 4 months.

For further information check the full SDS for this product.

Disclaimer: The information given in this data sheet is given in good faith and is believed to be valid and accurate at the time of publication. However, no responsibility is accepted for accident or injury which may occur from omissions or from information contained in the data sheet. 04/24

