Technical Data

LLEWELLYN RYLAND

TD03.18 HVD17 General Purpose Backing Paste

Product Introduction

HVD17 has been designed as a backing paste to be used directly behind a gelcoat and prior to lamination. HVD17 is to be used in areas of high profile or tight radii that are typically very difficult to laminate and often result in 'break-outs', air voids or pre-release and require time consuming, costly repairs. The use of HVD17 has been designed to eliminate these problems.

HVD17 can also be used behind the laminate as a general purpose gap filler.

Properties

HVD17 is an orthophthalic – Neo Pentyl Glycol based product that exhibits good flexibility whilst remaining tough. Due to its microsphere content it is lightweight, low shrinkage and has low exotherm in film application. In addition to being filled with microspheres, HVD17 contains glassfibres of various lengths which further aids strength and integrity of the gelcoat and laminate.

Application

HVD17 is a free flowing lightweight paste with a 'fluffy' texture that allows easy application by brush. When applying HVD17 it is important to allow the brush to glide through the paste and encourage the removal of any air voids between the paste and the gelcoat. HVD17 is to be catalysed with between 1½ and 2% medium reactive MEKP. A short time after catalysation a colour change will be observed from Blue to White. The gel time of HVD17 is sufficiently long to allow lamination to commence whilst the HVD17 is still wet. The lamination should be consolidated into the HVD17, further ensuring no air void behind the gelcoat.

Properties of liquid paste

Test	Result
Viscosity	Thixotropic
Appearance	Light Blue in colour
Consistency	Light weight containing fibres
Specific Gravity	0.70 - 0.80 g/cc

Properties of unfilled resin

Tensile strength	68	MPa	DIN 53455
Tensile stress at break	68	MPa	DIN 53455
Elongation at break	3	%	DIN 53455

Properties of cured paste 2% medium reactive MEKP @ 25°C

Colour Change	Light Blue ⟶ White
Linear shrinkage	0.084%
Volumetric shrinkage	< 3%
Shore D hardness	64
Gel time	20 – 30
Peak Exotherm	98°C
Time to Peak	82 min