

GRAVICOL 3410 STD CREAM 9310

BONDING PASTE - FIBER

Tinted

Date sheet n° : 1050

Updated : 01.12.16

Assembly	Aid to lamination	Gap filling

DESCRIPTION

Pre-accelerated bonding paste based on unsaturated polyester resin. Cures at room temperature (15 - 25°C). Cured using BPO peroxide.

APPEARANCE

The product is the standard variant. The product is available in White 9310.

USE AREAS

Product suitable for many types of thick joint bonding of composite parts.

APPLICATION

Surface to be bonded should be free from dust and contaminants which can adversely affect the bond adhesion strength. Preparation of surface is recommended using light abrasion / sanding followed by cleaning with appropriate solvent. The bonding paste is ready to use and reaction is initiated using the correct dosage of correct peroxide. Typical dosage is 2% to 3% w/w under normal workshop application conditions (15-25°C). Mix thoroughly to ensure homogeneous catalyst dispersion (this is assisted by use of catalyst indicators which change colour in TC version). Apply a uniform bead of bonding paste onto one of the surfaces and press parts together evenly to obtain the desired thickness of bond. Typically the thickness of the joint is greater than 5mm. We recommend allowing sufficient time for cohesive bond to form between laminates before handling bonded parts (cf : MECHANICAL PROPERTIES AFTER CURING).

PROPERTIES / ADVANTAGES

Semi rigid bonding paste for static bonding applications. Bonding paste with fibres for thick joints. Very smooth consistency, and easy to apply with a spatula or comb applicator. Due to its non shrinkage characteristics, dimensional stability of part is maintained during the curing cycle of the paste. Not suitable for use in thick bond applications.

STORAGE / SHELF LIFE

Shelf-life : 6 Months . When the product is sealed in its original packing, stored indoors away from direct sunlight and direct heat sources and ideally at ambient temperature between 15°C and 25°C .

TYPICAL CHARACTERISTICS : LIQUID

Properties	Test method	Conditions	Unit	Typical values
Density	MT-C B 001 O	23°C	g/cm ³	1,28 - 1,34
Viscosity	MT-C B 023 V	23°C - Spindle V73 - 0,5 rpm	mPa.s	1 500 000 - 3 500 000
Gel time	MT-C B 072 R	Catalyst : BPO (50%) powder (250g - 23°C - 2% BPO)	min	6 - 9
Peak time	MT-C B 072 R		min	10 - 20
Peak exotherm	MT-C B 072 R		°C	140 - 160

TYPICAL CHARACTERISTICS : MECHANICAL PROPERTIES AFTER CURING

Properties	Test method	Conditions	Unit	Typical values
Compressive strength	NFP 15-451		MPa	52
Flexural strength	NFP 15-451		MPa	28
Bond failure in the laminate	MT-C B 901 Q	20°C	h	6

For all additional information, refer to the Safety Data Sheet n° FP12454 available on our website.

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