Technical data sheet

GRAVICOL 2397 TC

BONDING PASTE - FIBER



Date sheet no: 1111 **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 MEKP peroxide.

APPEARANCE

TC: Contains catalyst indicator

USE AREAS

Product suitable for many types of thick joint bonding of composite parts. The product meets requirements for the operations of gap filling, surface filling and sealing.

The product can be used as a laminating aid.

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 1% to 2% 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 flexible bonding paste for dynamic 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/cm3	1,23 - 1,29	
Viscosity	MT-C B 023 V	23°C - Spindle V73 - 0,5 rpm	mPa.s	3 500 000 - 4 500 000	
Gel time	MT-C B 072 R	Catalyat MEVD	min	17 - 25	
Peak time	MT-C B 072 R	Catalyst : MEKP (250g - 23°C - 1% MEKP)	min	45 - 65	
Peak exotherm	MT-C B 072 R		°C	90 - 120	
TYPICAL CHARACTERISTICS: MECHANICAL PROPERTIES AFTER CURING					
Properties	Test method	Conditions	Unit	Typical values	
Compressive strength	NFP 15-451		MPa	45	
Flexural strength	NFP 15-451		MPa	40	
Bond failure in the laminate	MT-C B 901 Q	20°C	h	6	

For all additional information, refer to the Safety Data Sheet no FP 12438 available on our website.

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