

## SUPERBOND 7050 MARINE BONDING PASTE

### HIGH ADHESIVE, MINERAL FILLED BONDING PASTE BASED ON LLOYDS APPROVED RESIN

#### DESCRIPTION

SUPERBOND 7050 Marine bonding paste is a high-adhesion, low-density mineral filled bonding paste. The paste is based on a SABS and Lloyds approved, pre-accelerated unsaturated polyester resin in a styrene monomer solution. SUPERBOND 7050 is formulated to have strong adhesion to various core materials and laminating skins, with both soft sanding resistance and excellent hardness in a cured state. The cured state offers good flexibility.

Laminates made with this bonding paste are exceptionally consistent in both mechanical and chemical properties.

FEATURES	BENEFITS
Strong adhesion	Bonds strongly between laminate layers and multiple bonding paste layers/applications
Good filling properties	Fills gaps easily and can be built up layers up to 3cm thickness
Viscosity for manual and vacuum applications	Paste can be applied manually or with vacuum infusion.
Lloyds and SABS 713 approved resin base	Meets national and international quality standards
Specially formulated	High adhesion, tensile strength and hardness
Patented formulation	Our unique formulation has been patented in 2016

**THIS TECHNICAL DATA SHEET, AS WELL AS THE MATERIAL SAFETY DATA SHEET (MSDS) MUST BE READ AND UNDERSTOOD BEFORE WORKING WITH THIS PRODUCT.**

Data sheet version 08/16

The information is given to assist customers in assessing whether our products is suitable for their applications. We request that customers test our products before use to satisfy themselves as to performance and suitability for their requirements. Nothing in this data sheet constitutes any warranty, expressed or implied, including any warranty suitability for customer applications, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials, and in no event shall we be liable for special, incidental, or consequential damages. Our standard terms and conditions of sale applies. Errors and omissions excluded.

**PHYSICAL  
PROPERTIES**

PROPERTY	SPECIFICATION	TEST METHOD
Relative density @ 25°C, kg/m <sup>3</sup>	1,47	
Viscosity @ 25°C, mPa.s	142 2600	Brookfield
Tensile strength, mPa	22.5	ISO 527
Tensile modulus, mPa	1859.3	ISO 527
Elongation at break	5,5%	ISO 527
Hardness	90	Shore D
Flashpoint	32°C	
Maximum cure temperature @ 25°C ambient, 2 phr* MEKP and 3cm paste layer	72°C	
Geltime @ 25°C and 2 phr* MEKP, minutes	17 - 25	
Stability in the dark @ 25°C, months	6 minimum	

\*phr = parts per hundred by mass

**GELTIME**

The ambient temperature and the amount of catalyst control the geltime of the resin formulation. Catalyst levels should be dosed at a minimum of 1% and a maximum of 3% by mass. Inhibitors or accelerators can be used to adjust the geltime. SUPERBOND 7050 is a thermosetting resin paste and should not be processed at temperatures below 15°C and ideally not above 35°C.

**PIGMENTS  
AND  
FILLERS**

SUPERBOND 7050 can be pigmented by the addition of up to 5% by mass pigment paste, but it must be understood that the addition of any pigment will influence the physical, mechanical properties of the bonding paste negatively.

Additional filling or diluting of the resin paste will in all likelihood to change the hardening characteristics, as well as the physical and mechanical properties of the paste and will also affect the laminate as a whole. Any fillers must be checked for moisture levels to be <1.5% before use.

**STORAGE  
AND  
HANDLING**

SUPERBOND 7050 should be stored in closed containers, maintained below 25°C and away from heat sources and sunlight. All storage must comply with local fire and building regulations. Stock rotation should be based on a first-in, first-out principle. If stored correctly, the shelf life is 6 months from date of manufacture. NB: Stir before use!

**MATERIAL  
SAFETY  
DATA SHEET**

A Material Safety Data Sheet (MSDS) is available from KG Polymer Compounds on request. The MSDS outlines the safe handling of this product.

**WARNING:** DIRECT MIXING OF ANY ORGANIC PEROXIDE (CATALYST) WITH METAL SOAPS, AMINE OR ANY OTHER POLYMERISATION ACCELERATOR OR PROMOTER MUST BE AVOIDED, AS VIOLENT DECOMPOSITION WILL RESULT!

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