

FAIRBOND 5050 MARINE REPAIR AND FAIRING PASTE

HIGH ADHESIVE, MINERAL FILLED REPAIR AND FAIRING PASTE BASED ON LLOYDS APPROVED RESIN

DESCRIPTION

FAIRBOND 5050 repair and fairing paste is a high-adhesion, low-density mineral filled polyester resin paste. The paste is based on a SABS and Lloyds approved, pre-accelerated unsaturated polyester resin in a styrene monomer solution. FAIRBOND 5050 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 with a very smooth surface finish, which can be polished after 800grit sanding. FAIRBOND 5050 displays good flexibility in the cured state.

FAIRBOND 5050 superior adhesion and surface finish makes it suitable for repairs on finished laminates, yachts etc., where it can be over sprayed with a Gelcoat top layer, or it can be used as a mould repair product, where the final surface can be sprayed with SPRAYBOND and polished for the final mould finish.

FEATURES	BENEFITS
Strong adhesion	Bonds strongly to laminate layers or SUPERBOND bonding paste layers
Good filling properties	Fills pinholes and small imperfections to form a super smooth surface
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 surface hardness, in addition to superior adhesion to existing substrates.
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.

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 ³	1,49	
Viscosity @ 25°C, mPa.s	128 7600	Brookfield
Tensile strength, mPa	21	ISO 527
Tensile modulus, mPa	1750.3	ISO 527
Elongation at break	6,2%	ISO 527
Hardness	83	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. FAIRBOND 5050 is a thermosetting resin paste and should not be processed at temperatures below 15°C and ideally not above 35°C.

**PIGMENTS
AND
FILLERS**

FAIRBOND 5050 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 of FAIRBOND 5050 should be avoided, as it will diminish the surface finish. When diluting the resin paste further, changes in the hardening characteristics, as well as the physical and mechanical properties of the paste and will also affect the laminate as a whole must be expected.

**STORAGE
AND
HANDLING**

FAIRBOND 5050 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!

Data sheet version 08/16