

SabreBond™ XMP275

SabreBond XMP275 is a toughened hybridpolymer/epoxy-based two components structural adhesive. It has a very short open time. Resin and hardener react fast to form an elastomer with high bonding strength. The cured product has excellent water- and chemical-resistance. It does not contain isocyanates or solvents.

Application

SabreBond XMP275 is suitable for general industrial applications requiring high strength. It has excellent bonding performance on most substrates, such as steel, aluminum, copper, nickel-coated steel, PVC, ABS, PC, PA and PET etc.



Technical Characteristics (at 20-25°C, unless otherwise stated)

Components	SabreBond XMP 275 (Resin)	SabreBond XMP 275 (Hardener)
Color	Black	Translucent
Appearance	Paste	Paste
Density (g/cm ³)	1,03 ± 0,05	1,05 ± 0,05
Mixing Ratio by volume	2	1

Components	SabreBond XMP 275 (Resin)	SabreBond XMP 275 (Hardener)
After mixing of the components		
Pot-life (min)	8 – 10	
Initial Strength (min)	30	
Full Cure, ambient	2d @25°C	
Full Cure, elevated	1h @80°C	
After full cure		
Hardness (Shore-A)	75	
Tensile Strength (MPa)	6,5; after ageing (7d, 150°C): 4,8	
Elongation at break (%)	280; after ageing (7d, 150°C): 100	
Lap-Shear Strength (N/mm ²)		
CURE: 7d @25°C		
Al / Al	9,2	
Stainless Steel / Stainless Steel	8,7	
PA / PA	4,9	
ABS / ABS	5,4	
PC / PC	6,3	
PET / PET	5,5	
PMMA / PMMA	5,2	
AFTER AGEING: 7d @85°C and 85% r.h.		
Al / Al	9,4	
Stainless Steel / Stainless Steel	8,5	
PA / PA	4,6	
ABS / ABS	5,3	
PC / PC	5,5	
PET / PET	5,7	
PMMA / PMMA	5,1	

Preparation and Use

Comment

The components must be stored in tightly sealed containers. Ensure adequate ventilation during use. Avoid direct skin contact with the individual components or the non-cured mixture. Wear protective gloves and glasses. The surface to be bonded should be dry, free of grease and dust and should have no other contamination. Coatings (e.g. paints) on metal surfaces or any release agent on plastic surfaces should be removed. Also, the formation of condensation on the surfaces must be avoided. To do this, heat the substrates to room temperature. A low temperature increases the viscosity of the product.

Use

Mix the resin and the hardener before application. Ensure the correct mixing ratio and uniform mixing to obtain ideal mechanical and chemical properties. Make sure to prepare the right amount of adhesive, so that it can be used within the pot-life. The product can be processed manually or by machine.

Cleaning

Non-cured adhesive or the individual components can be removed with solvent. Pay attention to the compatibility of the substrate with the cleaner. Cured adhesive can only be removed mechanically.

Storage

The product must be stored at temperatures between 10 and 30°C. Direct sunlight, heat, frost or moisture must be avoided. The material can be stored in the original sealed containers for 12 months.

Packaging

50ml or 400ml cartridge or on request.

Safety

In any case, consult the valid safety data sheet before using the product.

DISCLAIMER OF WARRANTY

Manufacturer and distributor of this product make no warranty, express or implied, including, but not limited to any implied warranty of fitness for a particular purpose. No warranty is made as to the use or effects incidental to such use, handling or possession of the materials herein described. User is responsible for determining whether this product is fit for a particular purpose and method of application and assumes all risk and liability associated herewith. Manufacturer liability is limited to replacement of product or reimbursement of purchase cost at its sole discretion. No representative of ours has authority to change this provision which relates to all sales.

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