

BUILDING TRUST

PRODUCT DATA SHEET

SikaPower®-1200

Fast curing, tough and high strength assembly adhesive

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

	Component A	Component B
	SikaPower®-1200	SikaPower®-1040
	Ероху	Amine
	Yellow	Blue
mixed	Green	
	1.15 g/cm ³	1.25 g/cm ³
lculated	1.18 g/cm ³	
volume	100:50	
y weight	100:54	
	100 %	
at 10 s ⁻¹	120 Pa·s ^A	45 Pa·s ^A
	Thixotropic paste	
	15 – 30 °C	
	45 min ^{B, C, D}	
at 23 °C	48 hours	
at 70 °C	2 hours	
	40 MPa ^{C, E}	
	2600 MPa ^{C, E}	
	3.5 % ^{C, E}	
	20 MPa ^{C, D, E}	
	2.7 m ^{1/2} MPa ^{C, E, F}	
	3.5 N/mm ^{C, E, F}	
	90 °C ^E	
Cartridge	24 months ^G	
y .	alculated y volume by weight at 10 s ⁻¹ at 23 °C at 70 °C	SikaPower®-1200 Epoxy Yellow Mixed Green 1.15 g/cm³ 1.18 g/cm³ y volume 100:50 y weight 100:54 100 % at 10 s⁻¹ 120 Pa·s A Thixotropic paste 15 – 30 °C 45 min B, C, D at 23 °C 48 hours at 70 °C 2 hours 40 MPa C, E 2600 MPa C, E 20 MPa C, D, E 2.7 m¹/2 MPa C, E, F 3.5 N/mm C, E, F

CQP = Corporate Quality Procedure

DESCRIPTION

SikaPower®-1200 is a tough, high strength, solvent free, thixotropic, fast curing epoxy adhesive. It is designed for fast assembly bonding of structural composite substrates, like GFRP and CFRP laminates, as well as metallic substrates. The adhesive cures by polyaddition of the two components.

PRODUCT BENEFITS

- High fatigue and impact resistance
- Long open time at high temperature and hu-
- Cures at room temperature
- Accelerated curing and higher mechanical strength with heat
- Good adhesion to fiber-reinforced plastics
- Does not contain solvents or PVC

B) cured for 7 days at 23 °C

E) cured for 4 hours at 70 °C

AREAS OF APPLICATION

SikaPower®-1200 is suitable for fast assembly bonding of highly stressed components, especially if high strength and high fatigue properties are required.

This product is suitable for professional experienced users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

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 $^{^{\}text{C})}$ 23 °C / 50 % r. h.

F) CT-specimens (Optical Crack Tracking)

A) Rheometer PP = 25, d = 1 mm

 $^{^{\}mbox{\scriptsize D)}}$ adhesive layer: 25 x 10 x 3 mm / on GFRP

 $^{^{}m G)}$ stored between 10 and 35 $^{\circ}{
m C}$

CURE MECHANISM

SikaPower®-1200 cures by chemical reaction of the two components at room temperature. Higher temperatures speed up the curing process and lower temperatures slow down the curing process. The final glass transition temperature, as well as the tensile and shear strengths, may be increased with higher curing temperature.

CHEMICAL RESISTANCE

In view of potential chemical or thermal exposure, it is required to conduct a project related testing.

METHOD OF APPLICATION

Surface preparation

SikaPower®-1200 adheres usually well to fiber-reinforced plastics if applied subsequently after the removal of the protective peel ply.

Surfaces must be clean, dry and free from grease, oil and dust. Surface treatment may be required depending on the specific nature of the substrates. All pre-treatment steps must be confirmed by preliminary tests on original substrates considering specific conditions in the assembly process.

Application

SikaPower®-1200 is dispensed from dual cartridges with adequate manual or pneumatic guns. Extrude adhesive without mixer to equalize the filling levels. Attach the mixer and dispose of the first few cm of the bead before the application.

For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Removal

Uncured SikaPower®-1200 may be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin have to be washed immediately using hand wipes such as Sika® Cleaner-350H cleaning towels or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

STORAGE CONDITIONS

SikaPower®-1200 has to be stored between 10 °C and 35 °C in a dry place. Do not expose to direct sunlight of frost. After opening of the packaging, the contents have to be protected against humidity.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

Safety Data Sheets

PACKAGING INFORMATION

SikaPower®-1200 (A)

Drum	220 kg		
SikaPower®-1040 (B)			
Drum	240 kg		
SikaPower®-1200 (A+B)			
Cartridge	400 ml		
Mixer: Sulzer MixPac [™] MFH 10-24T			
Cartridge	450 ml		
Mixer: Sulzer MixPac TM MGQ 08-24T			

Please contact our customer service, for information of what packaging sizes are sold in Denmark.

BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

DISCLAIMER

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or endusers of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in guestion. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.



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