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2K Epoxy Panel Bond

Two-component structural epoxy adhesive showing high chemical and heat resistance, for bonding steel, SMC, aluminium, composite materials and many other substrates

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P/N	Product	S/C	Packaging
86496	2K Epoxy Panel Bond	2KEPB	195 ml cartridge + 1 nozzle

Bag of 3 nozzles

Application

86511

2K Epoxy Panel Bond provides versatility in use across a broad range of assembly requirements, from body panels, such as roofs and front fenders, to closures, such as doors, trunks, and hoods.

2KEPBN

2K Epoxy Panel Bond offers excellent adhesion on a wide variety of substrates such as CFRP (carbon fibre reinforced plastic), SMC (sheet moulding composite), FRP (fibreglass reinforced plastic), ABS, aluminium, galvanized steel, cold rolled steel, etc.

For hybrid assemblies of two different metals, 2K Epoxy Panel Bond distinguishes itself with excellent corrosion protection and impact toughness.

2K Epoxy Panel Bond facilitates a high degree of relative motion in the joint, e.g. in the particular case of dissimilar materials bonded to each other, showing different thermal expansion coefficients.

Instructions

- 1. Clean surfaces with KENT Acrysol or Soft Surface Cleaner and allow to dry.
- 2. Sand the surfaces lightly and degrease.

Nozzles

- 3. Before attaching the nozzle, balance the cartridge by extruding just enough product of part A and part B.
- 4. Attach the nozzle. Extrude and dispose of the first 2 or 3 cm of the product. Apply KENT 2K Epoxy Panel Bond as required on both surfaces to be bonded. The bond line thickness is controlled by 0,25 mm glass beads contained in the adhesive. Open time: 60 minutes * / Working time: 90 minutes*. During working time the already joined parts can still be re-positioned. Do not take the bonded assembly apart.
- 5. Clamp the panel for at least 4 hours *. Cure time can be accelerated (max. 150 °C).
- 6. Allow 24 hours * to achieve full strength.
- * 23 °C / 55% R.H.

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Technical Information

Base:	Epoxy-based adhesive	
Consistency:	Medium viscosity paste (mixed product)	
Colour:	Black (mixed product)	
Shelf Life:	24 months	
Customs Tariff Code:	3506 99 00 (2K Epoxy Panel Bond)	
	3923 50 90 00 (Nozzles)	
VOC:	0 g/l	

Cure mechanism:	Room temperature or heat	Tensile strength :	30 MPa (23 ⁰C, ASTM D-638) 3 %
	accelerated cure (max 150 °C)	Elongation at break:	3 %
Mixing ratio:	2:1	E-modulus:	4550 Mpa (23 ºC , ASTM D-638)
Specific gravity:	1.10 g/ml (mixed product)	Lap shear strength :	
Open time:	60 min (23 ºC)	Substrate	МРа
Working time:	90 min (23 °C)	Cold Rolled Steel (1,5 mr	n) 27,8
Handling/Clamp time:	4 hours (23 °C)	Cold Rolled Steel (0,8 mr	n) 23,7
Full cure:	24 hours (23 °C)	Hot Dipped Galvanized S	
Hardness:	Shore D 80 < 2 % (ISO 3521)	Alloyed Galvanized Steel	(0,7 mm) 18,5
		6111 Aluminium Alloy (0,9	9 mm) 11,3
Shrinkage:		5052 Aluminium Alloy (0,6	6 mm) 12,4
Application temp:	+16 °C to 30 °C (<16 °C with IR)	ABS	3,0
Temp resistance :	-40 °C to +100 °C (230 °C for 30	SMC	8,8
	minutes)		

SDS available on www.kenteurope.com

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