Technical Data Sheet

K106 High Strength Structural Epoxy Bonding System alinex



DESCRIPTION:

K106 (Previously known as K2001) is a high strength 24 hour cure epoxy. Higher performance than standard epoxies. (E.g. K214).

TYPICAL FEATURES | BENEFITS:

- Simple 1:1 mix ratio.
- Bonds to many surfaces.
- User friendly.

- Cure above +10°C.
- Gap filling.
- Interior | exterior application.

PERFORMANCE DATA:

Properties		Values	
Minimum application temperature: Air		+10°C	
Flash point:		>210°C	
Lap shear strength N/mm ² :		16	
Water Vapour Permeability (1mm thick):		16g/m ₂ /24hour	
Maximum operating temperature:		+60°C	
Adhesion Properties to correctly prepared surf	ace:		
	~ Composites	Excellent	
	~ Concrete	Excellent	
	~ Metal	Excellent Excellent	
	~ Timbers		xcellent
Appearance:	~ Resin	Viscous Opaque Liquid	
	~ Hardener	Viscous Pale Yellow Liquid	
GG kg/litre:	~ Resin	1.15	
	~ Hardener	0.90	
Density Kg/Litre -cured:		1.05	
Coverage:		Use as required: $(0.001 \text{m}^3 = 1 \text{ Litre})$ e.g. 1 litre covers 1m^2 @ 1mm thick	
		c.g. 1 httc 601	ero zini gi zinini tinek
	~ General Bonding	3m²/Litre	
Pot Life: (Usable Life) rot life is based on 100gram samples. arge quantities of mixed epoxy will generate heat and the pot life may be significantly educed.		+15°C- 50%RH	150 minutes
		+20°C– 50%RH	120 minutes
Cure Time:		+20°C −50%RH	15 hours
		+40°C- 50%RH	3 hours
ean up:		Wash hands with warm soapy water after any skin contact Solvent HA for tools	
IZ Dangerous Goods Class:	~ K106	Refer: SDS	
ackaging:	~ K106 Kit	1 kg	
helf Life:		24 months from date of manufacture.	
		(After this period consult with allnex).	

RECOMMENDED USES:

- Bonds Concrete | Metals | Timbers | Composites | Some plastics. Construction | Industrial uses.
- Boat Building.
- Electronic assemblies.

- Golf club heads.

NOT RECOMMENDED:

- Application below *10°C air temperature.
- Bonding Polypropylene and polyethylene.

• Application to incorrectly prepared surfaces.

HEALTH & SAFETY: Refer safety data sheets (SDS).

- Wear gloves wherever possible.
- Wash hands with warm, soapy water after any skin contact.
- Re-seal all containers tightly.

SURFACE PREPARATION:

The surface to be filled/repaired must be clean and sound.

Remove all dust, dirt, oil, scale, laitance, paint or any other contaminates.

Concrete: Acid etch | Shot blast | Diamond grind | Needle gun.

Metals: Degrease with Acetone > Abrade with medium grit abrasive paper > Degrease with Acetone again.

Timber: Prepare by way of mechanical sanding using 80 grit paper.

Composites: Degrease > Mechanically abrade > Degrease.

MIXING RATIO

K106 Mixing Ratio - By weight

K106 Mixing Ratio - By volume

Element	Value	Element	Value
Resin	100 part	Resin	1 part
Hardener	80 part	Hardener	1 part

Refer: Cautions Section

The mix ratio must not be altered.

The mix ratio is the only acceptable formula.

Adding more hardener will make the mix softer and it will be uncured.

Increased hardener levels will result in a weaker product.

MIXING METHOD:

Carefully mix the product according to the stated mix ratio.

Mix until uniform and no streakiness is evident.

APPLICATION METHOD:

Notched Trowel | Spatula

Apply mixed adhesive.

Clamp surfaces together for curing period, or hold without movement for required cure period.

CAUTION:

K106 is a two part epoxy that is mixed in the specified ratio. Only this ratio will produce a hard, non-softening product. Adding more hardener (with the aim of making the product cure faster) will not work and will only result in making the product softer. The more hardener that is added, then the softer it will become. No matter how long it is left, it will never harden.

Only the stated mix ratio will work and exhibit the stated performance data.

Note

Inadequate mixing, incorrect mix ratios or movement before cure are the normal reasons for joint failure.

OTHER EPOXIES AVAILABLE:

- K36 Clear Laminating Resin.
- K78 Crack Repair.
- K80 Pourable Grout.
- K83 Machinable Epoxy Grout
- K102 High Viscosity Mortar.
- K106 Structural 24 hour Adhesive.
- K125 Concrete Repair Paste.
- K130 Control Joint Filler.

- K138- High Strength, Structural Heat Resistant Adhesive.
- K214 General Purpose Adhesive
- K219- Structural 5 Minute Adhesive.
- K273- Underwater Cure Mortar.
- K2005 High Peel Strength Structural Adhesive.
- Fairing Cream Sandable Smoothing Paste.
- Truestik EA Flexible Adhesive Multipurpose.

EPOXY SELECTION:

Refer: Epoxy Selection Chart.

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