

# Technical Data Sheet

## K130 Jointing and Filling Epoxy Urethane System



### DESCRIPTION:

K130 is a slightly flexible two part epoxy urethane compound for the filling of concrete control and construction joints.

### TYPICAL FEATURES | BENEFITS:

- Solvent free | No VOC's
- Tough, yet flexible
- User friendly.
- Supports concrete edges, prevents fretting and concrete edge chipping.
- Pourable and self-smoothing in joints but not too fluid that it runs excessively.
- Controls most standard control joint movements yet is tough and wear resistant.
- Two colours differentiate resin and hardener.
- Easy mix recognition.
- Ease of use in confined public areas.

### PERFORMANCE DATA:

Properties		Values
Minimum application temperature: Air		+12°C
Flash point:	~ Resin	>150°C
	~ Hardener	>94°C - Estimated
Maximum recommended movement capability:		5%
Compressive strength:		40 MPa
Shore A Hardness:		80
Maximum operating temperature:		+75°C
Adhesion Properties to correctly prepared surface: <i>Note</i> <i>Primarily designed for concrete joints</i> <i>But will bond to metal and timber</i>		~ Concrete ~ Metal ~ Timbers
Appearance:		Filled Liquid - Colours Viscous Amber Liquid
SG kg/litre:	~ Resin	1.1
	~ Hardener	1.0
Density Kg/Litre -cured:		1.05
Coverage:		Use as required: (0.001m <sup>3</sup> = 1 Litre) e.g. 1 litre covers 1m <sup>2</sup> @ 1mm thick
Pot Life: (Usable Life) <i>Pot life is based on 100gram samples.</i> <i>Large quantities of mixed epoxy will generate heat and the pot life may be significantly reduced.</i>		+12°C– 50%RH +15°C– 50%RH +20°C– 50%RH
Cure Time:		40 minutes 30 minutes 15 - 20 minutes
Clean up:		+20°C –50%RH 12 - 24 hours
NZ Dangerous Goods Class:		Wash hands with warm soapy water after any skin contact Solvent HA for tools
Packaging:		Refer: SDS
Shelf Life:		~ K130 Kit 2 Litre
		12 months from date of manufacture. (After this period consult with allnex).

### RECOMMENDED USES:

- Concrete control Joints.
- Joints between dissimilar materials.
- Joints in synthetic polymer toppings e.g.: Terrazzite | Sureshield.
- Concrete construction joints.
- Adhesive for dissimilar materials.
- Speciality adhesive.

### NOT RECOMMENDED:

- Application below +12°C air temperature.
- Application to incorrectly prepared surfaces.
- Application to unsound substrates.
- Bonding Polypropylene and polyethylene.

**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.  
Concrete Control Joints: Diamond cut the spalled edges so that the face is vertical. Vacuum clean.

**JOINT DESIGN:**

Joints are typically a minimum of 6-12mm across.  
Depth of joint must not exceed width of joint.  
Delay joint installation until the maximum amount possible of concrete shrinkage has occurred.  
Joint width must be designed to accommodate anticipated movement taking into account the movement capability of K130.  
K130 is to be adhered to the two joint sides only.

*Note*  
*Three point adhesion. I.e. to the base, will limit K130 elongation.*  
*This will likely lead to cracking or splitting.*

**MIXING RATIO**

K130 Mixing Ratio - By weight		K130 Mixing Ratio - By volume	
Element	Value	Element	Value
Resin	3.4 part	Resin	3 part
Hardener	1 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. (Uniform grey colour)  
After any tinting; Carefully mix the product according to the stated mix ratio, carefully and slowly.  
Mix until uniform and no streakiness is evident.  
May be slow drill mixed. (200-300rpm).  
Mixing is often easiest with gauging trowel or broad knife.  
Avoid air entrainment when mixing.  
Aeration of the mix can result in blistering of the K130 joint surface.  
With K130, mixing is critical. Unmixed K130 will result in soft patches in the joint.  
Normally mix full kits to avoid mixing errors.

**COLOUR MIXING:**

Other colours may be created by tinting K130 off-white

Tint	Addition Rate	Method
Light grey	Add: 2 grams or 2mls black B1TTP tinter per 2lt K130 off white kit	add to resin and premix before hardener is added
Dark grey	Add: 15 grams or 15mls black B1TTP tinter per 2lt K130 off white kit	add to resin and premix before hardener is added

**APPLICATION METHOD:**

Trowel | Knife | Cartridge | Barrel gun | Pourable  
  
Ensure the joint sides are freshly cut, clean and dry.  
Ensure the joint base is clean. Use PEF foam rod or bond breaker tape as appropriate.  
Tape the surface of the sides of the joint and bag in the mixed K130.  
Tool off the excess carefully and remove the tape.  
Protect the area until cured.

#### Note

*For polished floors, a K130 joint can be overfilled and may be ground flat during the grinding/polishing process.*

#### Note

*The installation of this product is speciality work and consideration should be given to the use of a competent installer.*

#### CAUTION:

K130 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 well

*The consequences of having soft K130 due to poor mixing may be far reaching and costly to repair.*

*This is a job that must be done once, and done right. Many people do not understand the consequences.*

#### 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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