

Technical Data Sheet

K125 Trowel Grade Epoxy Paste System



DESCRIPTION:

K125 epoxy is an economical and versatile heavy duty epoxy paste suitable for a wide variety of purposes.

K125 is a paste (as distinct to a heavy mortar like K102). It is easier to mix and will apply by spatula or trowel. It provides a creamy, easy to apply and smooth consistency; yet is sag resistant up to normal film builds. It can be applied overhead and in vertical applications. It will bond more readily to surfaces due to its more pasty consistency.

TYPICAL FEATURES | BENEFITS:

- Simple 1:1 mix ratio
- Interior | Exterior application
- User friendly.
- Very hard when cured
- Highly durable, high compressive strength
- Very high adhesive and cohesive strength.
- Two colours differentiate resin and hardener.
- Easy mix recognition.
- General purpose.
- Many uses, handy, paintable.
- Chemical resistant – Acid and salt resistant

PERFORMANCE DATA:

Properties		Values
Minimum application temperature: Air		+12°C
Flash point:	~ Resin ~ Hardener	>93°C >150°C
Tensile strength:		35 - 47MPa
Tensile bond strength:		10 - 14 MPa
Compressive strength:		80 MPa
Flexural strength:		17 - 18 MPa
Maximum operating temperature:		+65°C
Adhesion Properties to correctly prepared surface:		
	~ Concrete	Excellent
	~ Metal	Excellent
	~ Timbers	Excellent
	~ PVC	Excellent
	~ Polyethylene	Poor Refer: Note #1. –Below
	~ Polypropylene	Poor Refer: Note #1. –Below
Appearance:	~ Resin ~ Hardener	White paste Black paste
SG kg/litre:	~ Resin ~ Hardener	1.4 1.4
Density Kg/Litre -cured:		1.4
Coverage:		Use as required: (0.001m ³ = 1 Litre) e.g. 1 litre covers 1m ² @ 1mm thick
Pot Life: (Usable Life) Pot life is based on 100gram samples. Large quantities of mixed epoxy will generate heat and the pot life may be significantly reduced.	+12°C– 50%RH +15°C– 50%RH +20°C– 50%RH	50 - 60 minutes 30 - 35 minutes 20 minutes
Cure Time:	+18°C –50%RH	24 hours
Clean up:	Wash hands with warm soapy water after any skin contact Solvent HA for tools	
NZ Dangerous Goods Class:	~ K125	Refer: SDS
Packaging:	~ K125 Kit	8 Litre
Shelf Life:	24 months from date of manufacture. (After this period consult with allnex).	

Note #1.

For bonding around Polyethylene & Polypropylene pipes in tanks/troughs etc. use allnex LM3000 followed by the use of K125.

RECOMMENDED USES:

- Bonding pipes, concrete and PVC. Bends in concrete pipes.
- Re-forming edges; stair nosing's, usable overhead.
- Filling holes, forming plinths.
- Steel plate fixing to concrete.
- Smoothing concrete prior to application of Fibreglass, Carbon fibre or Kevlar for column reinforcement.
- Smoothing and repairing concrete surfaces; e.g. eroded sewer tanks and pipes, eroded marine concrete; Acid and salt resistant.
- Setting bolts and rebar into concrete. - Horizontal.
- Fixing pipes | concrete.
- Fixing floors, tanks, concrete blocks, kerbs.
- Patching floor holes.

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/repared 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.

Bolt Grouting: Blow hole clear with clean, dry oil free compressed air.

Spalled Concrete Control Joints: Diamond cut the spalled edges so that the face is vertical. Vacuum clean. > Fill > Recut

Note

K80 is best for Spalled Concrete Control Joints

MIXING RATIO**K125 Mixing Ratio - By weight**

Element	Value
Resin	1 part
Hardener	1 part

K125 Mixing Ratio - By volume

Element	Value
Resin	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)

Hand mixed.

Mixing is often easiest with gauging trowel or broad knife.

APPLICATION METHOD:

Trowel | Knife | Cartridge | Barrel gun

If using to imbed horizontal bolts and bars, put mixed K125 into empty cartridge tubes and insert bung. Pump into back of cleaned hole and insert bolt with hammer (or use barrel gun).

May be wetted with water or methylated spirits to get a smooth glass like surface. - Excessive use of water will weaken the product.

Note

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

CAUTION:

K125 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 K125 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. **One to one ratio mixing means just exactly that.**

Note

K125 is very tough and hard but it is not flexible. It will fill non-moving joints but will not bridge actively moving joints.

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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