

Technical Data Sheet

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K102 - HEAVY DUTY EPOXY MORTAR

Based on Nuplex
Epoxy Technology

DESCRIPTION:

K102 is an economical highly filled heavy duty epoxy mortar. (K125 is less highly filled, K80 is a pourable liquid grout for, eg vertical bolt grouting).

FEATURES

- Simple 1/1 mix ratio;
- Very hard when cured
- Clean up with water
- General purpose
- Hand mouldable
- Highly durable; high compressive strength.
- Simple to use
- Many uses, handy, paintable.

NORMAL END USES:

- Bonding pipes, concrete and PVC. Bends in concrete pipes.
- Setting bolts into concrete. Horizontal and vertical.
- Re-forming edges; stair nosings, usable overhead.
- Fixing pipes/concrete
- Filling holes, forming plinths
- Fixing floors, tanks, concrete blocks, kerbs.
- Chemically resistant mortar.
- Patching floor holes

TYPICAL PROPERTIES:

	<u>RESIN</u>	<u>HARDENER</u>
Appearance:	Very thick white mixture	Very thick black mixture
Specific Gravity:	1.85	1.80
Flash Point:	>100°C	>100°C
Shelf Life:	>24 months	>24 months

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MIX RATIO:
Resin / Hardener

by weight
1/1

by volume
1/1

POT LIFE:
(Usable Life)

@ 12°C
40-50 minutes

@ 15°C
25-30 minutes

@ 20°C
15-20 minutes

MINIMUM APPLICATION TEMP:

12°C

CURE TIME:

24 hours at 18°C

COVERAGE:

Use as volume required (0.001m³ = 1Lt)

SURFACE PREPARATION:

Concrete: Acid etch, shot blast, grind clean and free from oil and dirt

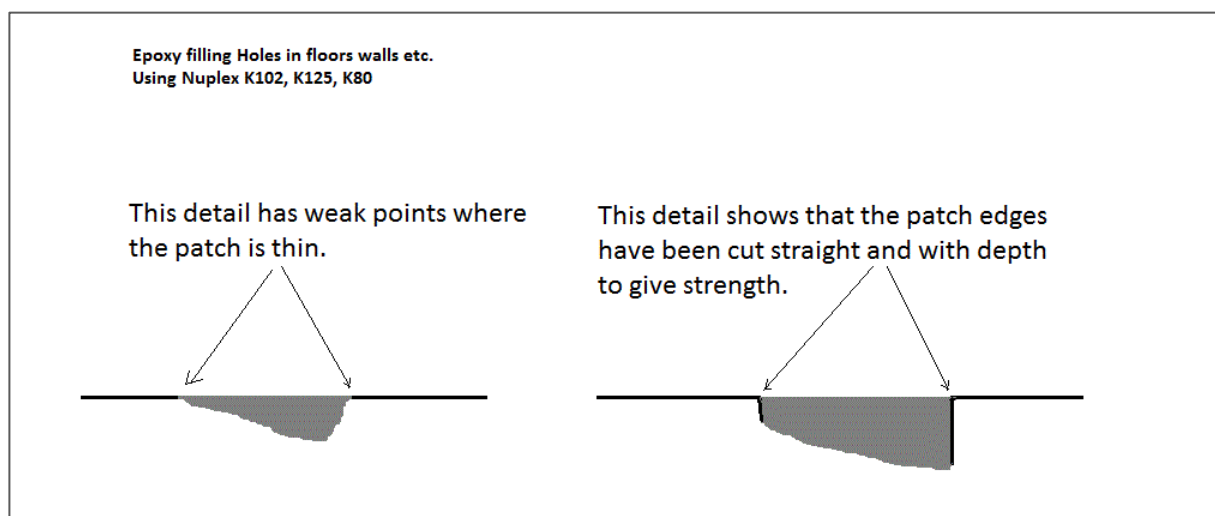
Metals: Grind to clean, bright surface

MIXING INSTRUCTIONS:

Carefully mix the product according to the stated (1/1) mix ratio. The mix ratio is the only acceptable formula. Increased hardener levels result in a **weaker** product. Mix until uniform (grey) and no streakiness is evident.

APPLICATION:

May be hand moulded into place. Non-sag. Apply by hand, trowel, spade. Mixing is often easiest with spade on the floor. Apply into place and smooth. May be wetted with water to get a smooth glass like surface.



HEALTH AND SAFETY:

Use gloves wherever possible. Wash hands with warm, soapy water after any skin contact. Re-seal all container tightly. Clean up with Solvent HA.

CURED PROPERTIES:

Maximum Operating Temperature:	65°C
Density kg/L:	1.85
Compressive Strength MPa:	80 - 100
Tensile Strength MPa:	35 - 45
Tensile Bond Strength MPa:	9 - 10
Flexural Strength:	17 - 18

OTHER EPOXY PRODUCTS:

K80	Pourable Grout	K214	General Purpose Adhesive
K102	H.V. Mortar	K36	Clear Laminating Resin
K125	Paste	K78	Crack Repair
Fairing Cream	Sandable Smoothing Paste		
K106	Structural 24 hour Adhesive		
K219	Structural 5 minutes Adhesive		
K138	High Strength, Structural Heat Resistant Adhesive		
K2005	High Peel Strength, Structural Adhesive		