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K125 Smooth, Trowel-Grade Epoxy paste

Based on Nuplex Epoxy Technology

DESCRIPTION:

K125 is a versatile paste epoxy. (K102 is very heavily filled and is a thicker mortar; K230 is similar to K102 but more rapid setting and sandable).

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.

FEATURES

- Simple 1/1 mix ratio
- Very hard
- Suitable for cartridge/barrel gun
- General purpose

BENEFITS

- Tolerant of use
- Highly durable
- Good construction product
- Many uses

NORMAL END USES:

- Smoothing and repairing concrete surfaces; eg eroded sewer tanks and pipes, eroded marine concrete; Acid and salt resistant.
- Smoothing concrete prior to application of Fibreglass, Carbon fibre or Kevlar for column reinforcement.
- Bonding pipes
- Fixing concrete
- Bolt and rebar bonding in horizontal holes.
- Steel plate fixing to concrete
- Concrete face fairing or smoothing by trowel; fills blow-holes
- Non-flammable and easy to transport
- Very high adhesive and cohesive strength

TYPICAL PROPERTIES:

| | <u>RESIN</u> | <u>HARDENER</u> |
|--------------------------|---------------------|------------------------|
| Appearance: | White paste | Black paste |
| Specific Gravity: | 1.4 | 1.4 |
| Flash Point: | n/a | n/a |
| Shelf Life: | >24 months | >24 months |

| <u>MIX RATIO:</u> | <u>by weight</u> | <u>by volume</u> |
|--------------------------|-------------------------|-------------------------|
| Resin | 1 | 1 |
| Hardener | 1 | 1 |

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| | | | |
|---|---------------------------------------|---------------------------------------|------------------------------------|
| <u>POT LIFE:</u> (Usable Life) | <u>@ 12°C</u> 50-60 minutes | <u>@ 15°C</u> 30-35 minutes | <u>@ 20°C</u> 20 minutes |
|---|---------------------------------------|---------------------------------------|------------------------------------|

| | |
|---|---|
| <u>CURE TIME:</u> | 24 hours at 18°C |
| <u>COVERAGE:</u> | Use as volume required (0.001m ³ = 1Lt) |
| <u>SURFACE PREPARATION:</u> | Concrete: Acid etch, shot blast, grind clean and free from oil and dirt Metals: Grind to clean, bright surface |
| <u>MINIMUM APPLICATION TEMP:</u> | 8-10°C |

MIXING INSTRUCTIONS:

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

APPLICATION:

Apply by trowel, knife, cartridge, barrel gun etc. 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 smoothed with water or Meths. (do not use excessively)

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 Epsolve 70.

CURED PROPERTIES:

| | |
|---------------------------------------|---------|
| Maximum Operating Temperature: | 65°C |
| Density kg/L: | 1.4 |
| Compressive Strength MPa: | 80 |
| Tensile Strength MPa: | 35 -47 |
| Tensile Bond Strength MPa: | 10 - 14 |
| 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 |
| K230 | Fast Set Paste | K85 | Rapid Set Pourable |
| K273 | Low Temp Paste | | Fairing Cream Sandable Smoothing Paste |
| K268 | Rapid Set Paste | | |
| K106 | Structural 24 hour Adhesive | | |
| K219 | Structural 5 minutes Adhesive | | |
| K138 | High Strength, Structural Heat Resistant Adhesive | | |
| K2005 | High Peel Strength, Structural Adhesive | | |
| Repikit 310 | Concrete Crack Repair Tube and Kit | | |