

# Cempoxy UA– Mortar/Putty

High performance non-shrink epoxy mortar / putty



## DESCRIPTION:

CEMPOXY UA -MORTAR/PUTTY is a high performance two part, low-slump, non-shrink epoxy mortar/putty formulated to allow hand mixing. It bonds strongly to dry or damp concrete, steel, stone, glass, aluminium etc. It sets quickly, can tolerate water & has excellent chemical resistance. It

## PACKAGING:

500ml, 1L, 2L & 4L

## STORAGE & SHELF LIFE

1 year in original unopened containers. Do not store opened containers.

## TYPICAL APPLICATIONS:

- Most epoxy mortar/putty applications
- Repairs to concrete structures
- Slab repairs
- Precast concrete & concrete pipe repairs
- Control joint shoulder repairs
- Kerb repairs
- Horizontal or overhead mortaring of starters, bolts, anchors & dowels
- Underwater applications (UA)

## SUBSTRATE PREPARATION:

Substrates should be clean & free from all contaminants, loose particles, coatings, curing compounds, dirt, oil, grease etc. Prepare concrete by honing or etching where possible. Prepare steel by grinding or sand blasting. Substrates must be sound & roughened to ensure a good bond.

## CONTROL JOINTS:

Honour any control joints in the concrete substrate – do not apply product over control joints. Create control joints in the mortar as required especially in long thin sections.

## ADVANTAGES:

- Versatile
- High compressive strength
- High tensile strength
- High bond strength
- Non shrink
- Durable
- Good chemical resistance

## MIXING:

CEMPOXY-MORTAR / PUTTY is supplied in packs containing the correct proportions of resin, aggregate and hardener. Mix whole packs at a time; do not mix part packs. Add the Hardener to the Resin. Allow the Hardener to fully drain into the resin. Thoroughly mix the Resin & Hardener for 3 to 4 minutes using a drill & paddle, spatula or hands. Use gloves when mixing by hand. Avoid entrapping air during mixing. During mixing scrape the sides & bottom of the mixing container with a scraper to ensure that all components are incorporated. Larger volumes will generate heat & reduce pot life.

## TECHNICAL DATA:

VISCOSITY: Non-slump, mortar putty

MIX RATIO: 1:1 by weight or volume

POT LIFE: 30min at 20°C

MIN APPL TEMP: 5°C

### CURED PROPERTIES:

- Colour:	Grey
- SG:	2.0
- Compressive Strength:	45 MPa @ 1 day
- Compressive Strength:	70 MPa @ 7 days
- Compressive Modulus:	13 GPa
- Tensile Strength:	23 MPa
- Thermal expansion:	$5 \times 10^{-5}$ mm/mm/ °C

## APPLICATION:

Use product immediately after mixing. While mixing, it is beneficial to wear rubber gloves and to keep them wet, so that product does not stick to hands. Keeping tools wet will assist in working the product into desired position. Apply mortar onto a clean, dry & roughened substrate. Mortar should be thoroughly worked into the surface. A thin skim layer should be applied to the surface first. After applying this initial skim layer, more mortar can be applied to the desired thickness before the skim coat sets. Alternatively CEMPOXY LIQUID can be used as a bonding primer for CEMPOXY MORTAR / PUTTY.

Once the mortar has been placed & started to cure, do not disturb or attempt to rework. Finishing of exposed surfaces is aided by using a trowel wiped with Cemix cleaning and thinning solvent just before the material becomes unworkable.

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations may occur on site.*

**POST APPLICATION PROCEDURE:**

Protect mortar from extreme temperatures, rain & water after application. Do not allow mortar to drop below 10°C until it has reached its minimum compressive strength. Do not wet cure epoxy mortar.

**PRECAUTION**

Do not apply product onto surfaces less than 10°C or more than 35 °C. Do not use product in temperatures less than 10°C or more than 35 °C.

**CLEANING:**

Clean all tools & equipment before product hardens with Cemix cleaning and thinning solvent. Clean hands & skin with soap & warm water.

**SAFETY:**

Avoid contact with eyes & skin, both from wet & dry mix. Do not breathe in dust. Wear suitable protective clothing, gloves, eye protection & barrier cream. Wear a suitable dust mask. Wash thoroughly after handling & store any leftover material properly.

**FIRST AID:**

Irrigate eyes & skin with plenty of water & seek medical advice immediately.

**SPILLS & LEAKS**

Keep out of sewers & storm water drains & dispose of any leftover material as trade waste in accordance with local authority guidelines.

**DISCLAIMER:**

*Recommendations & advice regarding the use of this product are to be taken as a guide only. Other than as appears on this products packaging, CEMIX LTD does not give any warranty express or implied as to the suitability of this product for your particular use, because the usage of this product is beyond the control of CEMIX LTD. If you need advice concerning the use of suitability of this product for your particular application, please contact CEMIX LTD first*

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