



EUCLID CHEMICAL

DURAL 617 TX

General Purpose epoxy adhesive & Repair Mortar

DESCRIPTION

DURAL 617 TX is a two component, solvent-free, moisture tolerant epoxy adhesive & repair putty designed to have supportive tack with reasonable working time, excellent mechanical properties, and chemical resistance. The thixotropic nature of DURAL 617 TX makes it suitable for vertical, horizontal and overhead repair.

PRIMARY APPLICATIONS

- Bonds concrete, tiles, bricks, ceramic, steel, fiberglass, and wood
- Fixing steel bars, bolts or structural fittings horizontally into concrete
- Surface repair of non-moving cracks on concrete structures
- Bonding steel door and window frames to brickwork or concrete and installing burglar proof bars into masonry structures
- Sealing overhead and vertical cracks and setting ports for pressure injection

FEATURES/BENEFITS

- Solvent Free and very low VOC
- Excellent bonding to most of the substrates
- Very good mechanical properties
- Chemical resistance
- Very versatile

TECHNICAL INFORMATION

Material properties tested under laboratory conditions @ 25°C, 50% RH

Property	Test Method	Values at 25° C
Components	-	Two (Part A: Base, Part B: Hardener)
Colour	-	Grey
Consistency	-	Thixotropic Paste
Mixing Ratio (By Volume)	-	1 : 1
Pot Life	-	70 ± 10 minutes
Initial Set	-	4 hours
Full Cure	-	7 Days
Compressive Strength	ASTM C579	70 N/mm ² at 7 Days
Flexural Strength	ASTM C580	20 N/mm ² at 7 Days
Tensile Strength	ASTM C307	12 N/mm ² at 7 Days
Concrete Bond Strength	ASTM D4541	Breaks concrete
Application Temperature	-	+5°C to +40°C
Maximum Service Temperature	-	+60°C
VOC	-	< 3 g/L

Expect reasonable variation under field conditions.

PACKAGING

7.5 kg Kit (Part A and Part B).

SHELF LIFE

24 Months if stored between 15°C to 30°C

COVERAGE/YIELD

~4.4 m²/7.5 Kg kit at 1mm application thickness.

DIRECTIONS FOR USE

Surface Preparation: Surfaces must be clean, sound, dry or damp, but free of standing water. Exposed concrete surfaces must be sandblasted or chipped to show the well-bonded main aggregate. Steel should be grit blasted clean, free of rust, paint or foreign matter likely to affect the bond or performance of the repair.

Mixing: Precondition material to between 10°C to 23°C before using. Premix each component of the kit. Add the Hardener component to the Base component and mix thoroughly for 3 minutes with a slow speed drill. Do not aerate or mix more material than can be placed in 30 minutes.

Application: Using a notch trowel or putty knife, apply the mixed material to the surfaces at the required level, ensuring full contact will be made when the items are brought together. If a higher thickness needs to be filled, it may be necessary to build up in layers. Remove any excess adhesive that is squeezed out and smooth the exposed glue line with water and a clean application tool or sponge.

Application Thickness: 10 mm thickness in single layer application over vertical / overhead application.

CLEAN-UP

Clean equipment immediately after use with suitable Cleaner and rinse with clean water.

PRECAUTIONS / LIMITATIONS

- Application temperature of substrate to be 5°C and rising.
- Low temperatures adversely affect application spread rate and time to achieve bond. Hot temperature decreases working time.
- The minimum ambient and surface temperature should be 4°C and rising at the time of application.
- Do not thin with solvent.
- Do not inject moving or leaking cracks. The minimum age of concrete must be 28 days.
- Use materials in strict accordance with the manufacturer's Material Safety Data Sheet. Protective clothing and equipment will significantly reduce the risk of injury. Body coverage apparel, safety goggles and impermeable gloves are recommended. In case of contact, flush with copious amounts of water and seek medical attention. Dispose of waste materials and containers in strict accordance with Government Regulations.

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