

Conpatch® 600TP

ONE PART FINE CONCRETE REPAIR MORTAR

DESCRIPTION

A ready to use economical one component polymer modified repair mortar. **Conpatch 600TP** contains specially selected materials to provide a fine, smooth repair material and reduce long term shrinkage. Complies with class R4 of EN 1504-3 structural repair mortars.

USES & ADVANTAGES

Conpatch 600TP is a fine ready to use repair mortar for repairing concrete surfaces including small honey-combs, surface defects, blowholes and minor damage.

Advantages include:-

- Structural repair mortar.
- Easy to apply. Excellent workability.
- Non shrink. Non toxic. Non corrosive.
- Contains fibres to reduce micro cracking and improve durability.
- Reduces carbonation.
- Good adhesion and mechanical strengths.
- Contains no chlorides or salts that may cause corrosion.
- Gives better control than two part systems.
- Provides cost saving over two part systems.
- Good colour matching to concrete.
- Non sagging.
- Good resistance to chlorides & sulphates.
- Can use for cosmetic and larger void filling.
- Good abrasion resistance.
- Complies with class R4 of EN 1504-3 repair mortar.

PROPERTIES AND COMPLIANCE

Appearance:	Grey powder
Compressive Strength:	>45 - 60 N/mm ²
ASTM C109	after 28 days at 25°C
Flexural Strength:	10 - 12 N/mm ²
ASTM C348	after 28 days at 25°C
Bond Strength to Concrete:	2.2 - 3.0 N/mm ²
ASTM D4541	after 28 days at 25°C
Drying Shrinkage:	<300 micro strain at 28 days
ASTM C490	

SUBSTRATE PREPARATION

The substrate should be clean & sound. Remove dirt, dust, oil, grease, laitance, sealers, release agents, curing compounds & paints.

Exposed rebar should be cleaned & protected with **Congard Zinc**.

The concrete should be presaturated for preferably 6 hours with water before application.

PRIMING

Priming is not normally required. Surfaces to receive **Conpatch 600TP** should be well saturated with water first.

MIXING

Conpatch 600TP is simply mixed with water to yield a stiff easily workable compound with shrinkage compensating properties.

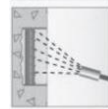
The quantity of water depends on the desired consistency but as a guide we recommend 16-18% by weight of product.

Mix with a paddle mixer or trowel for at least 3 minutes to ensure a homogenous lump free material is achieved. Do not try to remix the product after losing workability by the addition of more water.

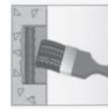
Typical Procedure for Concrete Repair Using Conpatch Repair Mortars



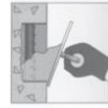
Remove damaged concrete and prepare exposed steel reinforcement.



Thoroughly clean area of repair using high pressure water jet to remove all loose debris and contamination. Fingers should be able to be fitted behind rebar.



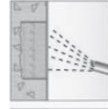
Mix and apply **Congard Zinc** to rebar allow to dry. Apply **Cormix Latex** bonding bridge if required. Apply repair material WET ON WET to bonding bridge.



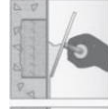
Replace damaged concrete using **Conpatch 600TP** one component polymer modified mortar, build up in layers if necessary.



Once set firm, the repair and surrounding area coat with **Corcure 90** or **Corcure 75** curing compound.



Remove any remaining **Corcure 90** from treated area if to overcoat.



Any further leveling may be achieved with fairing material. A final coat of **Elastoclad** decorative elastomeric, anti-carbonation coating will prevent the ingress of water chlorides and other aggressive influences, effectively halting the carbonation process. **Elastoclad** is water vapour permeable, allowing the substrate to breathe, and has excellent elasticity, bridging dynamically moving cracks even at low temperatures.

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METHOD OF USE

Apply **Conpatch 600TP** with a trowel, spatula, float or by spray. By hand press hard. Work up to 20 mm. in one layer. Thicker repairs may be achieved by working in layers.

CURING

To prevent rapid surface drying and crazing, use a suitable curing compound from Cormix's **Corcure** range e.g. **Corcure 90**.

CONSUMPTION

Approx. 2 kg/m²/mm.

PACKAGING

25 kg. 4 ply plastic lined bags.

STORAGE & SHELF LIFE

Conpatch 600TP has a shelf-life of up to 12 months ... unopened packs kept in a dry store. If high humidity is apparent the life may be reduced to 6-8 months.

HEALTH & SAFETY

Conpatch 600TP is non-toxic but is alkaline in its nature. When applying gloves & goggles should be worn. Wash off splashes to skin with water. If in eyes wash out with plenty of clean water and seek medical attention. **Conpatch 600TP** is non-flammable.

TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001: 2008 verified by TUV Nord.



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09
1012-CPD-0103
EN 1504-3 (R4)
**Structural and non-
structural repair**

Compressive Strength:	≥ 45 MPa
Chloride ion Content:	≤ 0.05 %
Adhesive bond:	≥ 2.0 MPa
Resistance Shrinkage:	≥ 2.0 MPa
Carbonation Resistance:	dk ≤ control Concrete
Elastic modulus:	≥ 20 GPa
Capillary Absorption:	≤ 0.5 kg/m ² /h ^{-0.5}

CONTACT DETAILS

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