

Cempatch LE

Medium build, high strength cementitious repair mortar



Description

Cempatch LE is a single component polymer modified cementitious repair mortar consists of a blend of cement, dry powders, well graded aggregate and special additives that when mixed with water produces an easily workable repair mortar for horizontal and vertical applications.

Applications

- ▲ Repair of all types of structural concrete where high strength and extremely low shrinkage properties are required.
- ▲ For the repair of vertical and overhead elements.
- ▲ As a repair mortar for all structural elements in buildings, water retaining structures, industrial plants, bridges, etc.

Advantages

- ▲ Shrinkage controlled polymer modified cementitious repair mortar.
- ▲ Easy to apply, single component, requires only addition of water.
- ▲ Extremely low permeability to water, providing excellent protection to steel reinforcements and host concrete.
- ▲ Suitable for internal and external application.
- ▲ Water vapour permeable.
- ▲ Cost effective, hand applied no formwork is required.

Method of Use

Substrate Preparation

All damaged and weak concrete should be cut back to reach sound concrete and/or to a minimum depth of at least 10 mm.

Corroded steel reinforcement should be grit blasted to remove all rust traces. In case of significant loss in the steel reinforcement cross section, the steel should be replaced. Remove all concrete form around exposed steel reinforcements by 10 mm thickness.

The perimeters of the repair area should be saw cut to a minimum depth of 10 mm. The prepared area should be cleaned thoroughly by brush and/or compressed air.

Technical Properties:

Colour:	Grey
Density:	2.2 ± 0.1 g/cm ³
Compressive strength:	≥ 50 MPa @ 7 days
ASTM C109/109M-02	≥ 58 MPa @ 28 days
Flexural strength:	≥ 6 MPa @ 28 days
ASTM C348	
Minimum application temperature:	5°C

Priming

All grit blasted steel reinforcements should be primed within 2 - 4 hours with one or two coats of zinc rich epoxy coating Repcoat ZR.

Areas to be repaired with Cempatch LE should be soaked with clean water before applying the repair mortar. All excess water should be removed prior to applying Cempatch LE.

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. 3.75 litre of clean water should be added to clean container. The powder is then added slowly to the water while mixing continuously with low speed mixer/drill (400 - 600rpm). Mixing time should be continued for 3 minutes until uniform consistency is obtained.

Placing and Finishing

Cempatch LE can be applied by trowel or hand. The mixed mortar should be applied using firm pressure to fully compact the mortar to ensure good adhesion with the steel reinforcements and the substrate. Finishing and leveling should be carried out initially by wooden or plastic float. Final finishing should be carried out using steel float.

Don Construction Products Qatar W.L.L

New Industrial Area, Street 21,
Zone 81, bldg. # 9
Doha - Qatar

Cempatch LE

Curing

As Cempatch LE is a cementitious based material, it should be cured in a similar method to concrete. Curing can be conducted by using Setseal A or by wet hessian sheets covered with polyethylene sheets.

Cleaning

All tools should be cleaned immediately after application using fresh water. Hardened materials must be cleaned mechanically.

Packaging

Cempatch LE is available in 25 kg bags.

Thicknesses and Size Limitations

Cempatch LE can be applied in a single application for sections up to 20 mm thick in overhead applications and 30 mm thick in vertical applications. Thickness should not be less than 10 mm deep in all applications.

Cempatch LE repair area should not exceed 2.5 m² in single application.

Yield

Approximately 13 litre per 25 kg bag. (77 bags/m³).

Storage

Cempatch LE has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C in original unopened bags.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

Cempatch LE may cause irritation to skin or eyes. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advise if necessary.

For further information refer to the Material Safety Data Sheet.

Fire

Cempatch LE is nonflammable.

More from Don Construction Products

A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Don Construction Products Qatar W.L.L
New Industrial Area, Street 21,
Zone 81, bldg. # 9
Doha - Qatar

Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

