

CIKOPatch 2K

Smart Chemical Solutions



سيكو الشرق الأوسط
MIDDLE EAST

Two component, concrete and plaster repair mortar

Description

CIKOPatch 2K is a two component polymer modified cementitious non-sag repair mortar for interior and exterior use to repair concrete and plaster. Particularly it is suitable for overhead and vertical surface repairs by trowel application.

CIKOPatch 2K is a balanced blend of cement as binder, graded silica sand, cement replacements, rheology modifier and polymer as second component to provide a premium quality repair mortar. It exhibits excellent elastic property and can accommodate thermal movements.

Properties

- Two component repair system.
- Suitable for all climates.
- Resistant to chlorides and carbon dioxide.
- Low permeability and hence durable.
- Can be repaired to a thickness from 4mm to 70mm.
- Exhibits good bond strength.
- Shrinkage compensated.
- Chloride free and will not rust or harm metal on contact.
- Frost and salt resistant.

Application area

- All types of restoration work involving repairs on concrete and plaster.
- Vertical and overhead repairs.
- Building repairs in coastal areas.
- Bridges and car park repairs.
- Potable water tanks.
- Pre-cast concrete parts.
- Repair of honeycomb in concrete.

Applicable standards

- Complies with Qatar Construction Specifications QCS.

Physical properties

Form	Two component system	
Colour	Light grey	
Density - fresh	2050±50 kg/m ³	
Working time	30 minutes	
Compressive strength ASTM C 109	3 days	≥25 N/mm ²
	7 days	≥30 N/mm ²
	28 days	≥50 N/mm ²
Flexural strength	28 days	≥10 N/mm ²
Water Penetration	<4mm	

Coverage / Yield

A kit of CIKOPatch 2K consisting of 25 kg Part-A and 4.0 ltr of Part-B will yields 14.0 litres.

Application instructions

Surface preparation

All loose, spalled, honey combed concrete and plaster must be chiselled out until a sound surface is reached. The area and depth of repair should always be slightly more than the damaged area and reinforcement shall be exposed in case of corrosion. The shape of the chiselled area must be always in the form of a square, rectangle or hexagon (but not round or oval) which provides additional support to hold the repair mortar. Clean the chiselled concrete surface to remove loose and unsound material by water blasting or any suitable means to make the surface free from loose material and dust.

Reinforcement protection

The exposed reinforcement must be cleaned to remove rust by mild sand blasting or sand paper. The cleaned reinforcement must be coated with a suitable anti-corrosion coating for steel reinforcement.

Priming

The chiselled concrete substrates must be dampened with clean water and primed with the bonding agent CIKObond AC using brush.

Mixing

Liquid component of CIKOpatch 2K [Part-B] should be mixed with powder component [Part-A], using a heavy duty slow speed drill-paddle assembly. Slight amount of water may be added to achieve required application consistency. The properly mixed material should be thick, trowelable and of lump free consistency. The quantity of water required slightly varies depending on the consistency requirement.

Note: In hot weather application, use chilled water to extend the open time of the mixed material.

Placing:

Place the mixed mortar on primed surface and fill the chiselled out area using steel trowel. The mortar shall be placed before bonding agent gets dried. Never apply CIKOpatch 2K over dried bonding agent. Finishing must be done in similar way as that of normal plaster

Curing

The repaired area must be cured as per the standard curing practice or apply the membrane curing agent CIKOcure AC.

Precautions

- Application temperature must be between 5^o C and 40^o C.
- Do not re-temper mortar after initial mix.

Packaging

CIKOpatch 2K is available in kits of 25kg moisture resistant bags and 4.0 litre pails.

Shelf life

CIKOpatch 2K has a shelf life of 12 months if stored in accordance with manufacturer instructions.

Storage

CIKOpatch 2K should be stored under cool enclosed shaded area.

Health & safety

Use standard dust mask to avoid inhalation of dust. Powder when wet or moist can cause burns to skin and eyes which should be protected during use. If comes in contact with skin/eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries