



Building & Repair Mortars

ISOMIX MECHANIC

Technical Data Sheet

Reviewed: 06.06.2015



DESCRIPTION

ISOMIX MECHANIC is a high strength, fiber-reinforced cement-based repair mortar. It contains high strength cement, special resins, fibers and additives, which offer excellent adhesion to concrete surfaces. It protects concrete elements from corrosion, offers water resistance and has excellent adhesive strength and workability. It is suitable for interior and exterior use for layers up to 3cm thick.

ADVANTAGES

- Excellent adhesion
- Excellent anti-corrosive protection
- Low water penetration
- Volume stability
- Excellent workability
- Exterior and interior use

APPLICATIONS

- Demanding repairs of concrete elements.
- Repair of irregularities on a concrete surface after demolding.
- Restoration and repairs of broken edges, holes and ornaments on horizontal and vertical surfaces.
- Restoration of broken edges on balconies, staircases, pillars, wells, drains and tunnels.
- Suitable for layers up to 30 mm thick.

INSTRUCTIONS FOR USE

Substrate preparation

1. Substrates must be clean, free of oily residues, loose materials, dust etc.
2. Dampening of the substrate before application is necessary.
3. Remove rust from reinforcements and follow with rust primer application.

Mixing instructions

1. Add 4 - 4,5 kg of water in a clean bucket and gradually under constant stirring add 25kg of **ISOMIX MECHANIC**.

2. Using a low speed electrical mixer (or concrete mixer) stir well till a uniform tight mass appropriate for repair work is formed.

Application

1. The mixture should be applied (pressed) on the surface with a trowel or gunning device at the desired thickness, up to 30 mm per layer.
2. The working time of the mixture is 2 hours. Periodical stirring is advised while avoiding the addition of more water.
3. If a second layer is required it is advisable to roughen the first layer in order to achieve better adhesion.

CLEANING

Remove as much material as possible from tools before cleaning. Clean all equipment immediately after use with soapy water.

REMARKS

The final surface should be protected from rapid dehydration especially at high temperatures. Repeated dampening is recommended for 48 hours, covering the treated surface with wet clothes or polyethylene sheets.

COVERAGE

16 kg / m² / cm of layer thickness.

TECHNICAL CHARACTERISTICS

Form: Grey cement based powder

Specific gravity of fresh product: 2140 kg/m³

Compressive strength in 28 days: 45,00 Mpa

Flexural strength in 28 days: 8,00 Mpa

Pot Life: Up to 2 hours (20°C)

Application temperature: +10°C έως +35°C

STORAGE

Store in dry and cool storage conditions at temperatures 5°C -30°C. Protect from moisture, frost and direct sunlight.

SHELF LIFE

At least 12 months in the above mentioned storage conditions. Products should remain in their original unopened sealed bags, bearing the manufacturers batch number.

PACKAGING

Bags 5kg, 25kg

PACKAGING	CODE	BARCODE
5kg	07042	5204094070429
25kg	07040	5204094070337

Evochem®

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	EVOCHEM S.A. Athens, Attica, Greece
EN 1504-3	
ISOMIX MECHANIC Concrete repair product for non structural repair cement based, polymer modified Class R2	
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HEALTH AND SAFETY INFORMATION



H315 Causes skin irritation **H317** May cause an allergic skin reaction **H318** Causes serious eye damage **H335** May cause respiratory irritation **P102** Keep out of reach of children **P271** Use only outdoors or in a well-ventilated area **P280** Wear protective gloves/protective clothing/eye protection/face protection **P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **P310** Immediately call a POISON CENTER or doctor **P302 + P352** IF ON SKIN: Wash with plenty of water and soap **P333 + P313** If skin irritation or rash occurs: Get medical advice / attention **P261** Avoid breathing dust/fume/gas/mist / vapours / spray **P304 + P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing **P312** Call a POISON CENTER or doctor if you feel unwell **P362 + P364** Take off contaminated clothing and wash it before reuse **P501** Dispose of the contents/container in accordance with the current legislation on waste treatment **EUH208**: Contains cement portland, chemicals. May produce an allergic reaction. Substances that contribute to the classification: cement portland, chemicals

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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