NEOTEX S.A.
ESTABLISHED IN 1959
CONSTRUCTION CHEMICALS
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Neorep® Rapid

High strength fast-setting non-shrinking cementitious mortar for repair jobs on concrete elements

Fields of Application

Thanks to its special composition and remarkable mechanical properties **Neorep® Rapid** is suitable for easy and highly durable restoration jobs in buildings without formworks.

Some indicative uses are repairs of damaged, cracked or broken concrete elements (e.g. columns, beams, slabs, stairs, holes of hairpin bends), doors, windows (frames, bases), cracks and joints on concrete, rigid joints used for pre-cast, industrial flooring, visible reinforcements and concrete pipes. Neorep® Rapid is also suitable for setting metallic parts.

Properties/ Advantages

- **Neorep® Rapid** is a non-shrinking ready to use premixed mortar.
- Its aggregates of selected particle size and special additives prevent any cracking attributed to non-ideal curing conditions such as plastic shrinkage or vibrations (e.g. due to noise and traffic of vehicles.
- It shows quick and easy laying and finish.
- **Neorep® Rapid** meets the requirements of Class R3 of EN 1504-3.

Technical Characteristics

Appearance	Grey powder
Density	1,47kg/lt
Compressive strength	≥ 25,0N/mm^2
Flexural strength (EN 1015-11)	5,1N/mm^2
Water per 25kg Neorep Rapid	4,5kg
Consumption of fresh mix	1,61-1,70Kg/m^2/mm
Maximum thickness of application	3,5-4,0cm
Maximum grain size	2,0mm

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Instructions for use

- Careful cleaning of the surface and removal of dust, oil, grease, traces of rust to achieve a solid substrate.
- In case anticorrosion protection of steel reinforcement is needed, apply two layers of mix 1kg copolymer emulsion **Revinex®**/2-3kg **Neorep® Rapid** with paint brush or brush.
- Good wetting of the spots to be repaired at least 6-12hours before mix application
- Add water so as the mix obtains the desired consistency. The mortar is applied with trowel or spray in continuous layers of thickness up to 3,5-4cm each. Finishing may be performed by smoothing the surface with a wooden or plastic plastering trowel. This last operation may be performed when the mortar begins to set, i.e. when the fingers no longer sink in the mortar (touch dry).
- The addition of **Revinex®** at a rate 1 parts **Revinex®**: 3 parts water into **Neorep® Rapid** (1-2kg **Revinex®** /25kg **Neorep® Rapid)** improves adhesion properties of the mortar to concrete, brick and reinforcement whereas it grants enhanced waterproofing and duration to time and compression.

Notes

- Low temperatures and high humidity during application prolong drying time, while high temperatures decrease it. Thus pot life usually ranges from 15 to 20 minutes.
- The presence of polypropylene fibers and specific anti-shrinkage additives prevent the formation of holes or cracks, even without the application of humid curing. However, when used in places, which are completely exposed to the sun or too ventilated, wetting during drying of the mortar for 24-48hours is recommended, especially when high temperatures prevail.
- In case of vertical or horizontal applications of big openings more than 3,5-4cm the use of fiber mesh **Gavazzi 0133-A** is recommended after first layer of **Neorep® Rapid**.

Packing

25kg carton bags and 5kg plastic containers

Storage stability

At least 12 months when kept sealed in its original container in dry and covered place.

Auxiliary materials

- **Revinex®**: Tin cans 1kg,5kg,18kg
- **Fiber mesh Gavazzi 0133-A**: in rolls 50 x 1m or 0,33m

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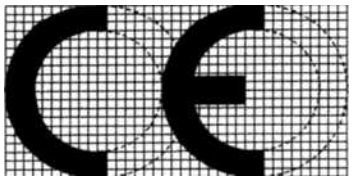

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EN 1504-3
Neorep Rapid
Concrete repair product for structural repair
PCC mortar (based on hydraulic cement, polymer modified)

Compressive strength	R3
Chloride ion content	≤ 0,05%
Adhesive Bond	≥ 1,5 MPa
Carbonation resistance	Passes
Elastic modulus	≥15 GPa
Thermal compatibility , part 1	≥ 1,5 MPa
Capillary absorption	≤ 0,5kg·m^{-2}·$h^{-0,5}$
Dangerous substances	comply with 5.4
Reaction to fire	Euroclass A1