# REPAIR MORTAR R3

**PRODUCT DESCRIPTION**
It is a cement based, polymer and fiber added, high performance non-shrinking surface repair mortar.

**AREAS OF UTILIZATION**

* It is used as concrete repair mortar for the repair and restoration of concrete prefabricated building elements on horizontal and vertical floors indoors and outdoors, and for the repair and restoration of poured and broken surfaces on walls and ceilings.
* It can also be used as a repair plaster to provide a smooth surface before ceramic application.
* It is used for repairing concrete after the formwork is removed, and also for filling tie-rod holes and core cavities.
* It is used in the repair of surfaces that require very high strength (Highway, Bridge, Runway).

**ADVANTAGES OF THE PRODUCT**

* It is fiber reinforced.
* It does not shrink.
* It reaches high compressive strength in a short duration after application.
* It can be easily applied at a thickness of 5-50 mm.
* It provides high adherence on concrete and plastered surfaces.
* It has high resistance to water and frost.
* It provides easy application.
* It provides the possibility of horizontal and vertical repair in concrete.

## PREPARATION OF THE SURFACE

* Oil, dirt or materials that prevent adhesion should be cleaned from the surface, materials such as mortar cement residues etc. should be scraped of and the surface should be free of dust.
* If necessary, the application surface should be cleaned with water.
* In very hot and windy weather, the surface should be saturated with water.
* Before the application, **YurtKim Priming Coating EK220** should be applied to the surface in order to get a good result.
* Rust on the reinforcement to be repaired should be cleaned and dust free with the help of a steel wire brush.The contact of the reinforcement bars with the concrete should be cut off and at least 2 layers **of YurtKim Priming Coating EK220** should be applied with the help of a brush.

## APPLICATION

## 25 kg YurtKim Repair Mortar R3 poured into 4-4,5 liters of clean water. It is preferably mixed with a low-speed mixer so that no lumps remain.

## The prepared mortar is rested for 5-10 minutes to mature and used again after mixing for 1-2 minutes.

## YurtKim Repair Mortar R3 is filled by using steel trowel by applying pressure against the broken, cracked and broken areas on the floor.

## After its application, the surface is smoothed with a trowel. After the application, the surface is finished with a damp sponge.

**TECHNICAL SPECIFICATIONS**

* Reaction to Fire: A1
* Class: R3
* Compressive Strength: ≥ 25 N/mm2
* Bending Strength: ≥ 4 N/mm2
* Limited Shrinkage/Expansion ≥ 1.5 N/mm2
* Adhesive bonding strength ≥ 1.5 N/mm2
* Temperature Resistance between -20°C and +80°C
* Setting time: 1 hour
* Full drying time: 5-7 days
* Pot life: 60 min.
* Consumption: 1.8 kg/m2/mm
* The above data was obtained based on the results of laboratory tests, and values may vary due to differences in the construction site environment.

## WARNINGS AND SUGGESTIONS

* Do not breathe directly. In case of contact with eyes, wash with plenty of water and consult your physician if necessary.
* Avoid application at temperatures below +5°C and above +35°C.
* Avoid application in areas that are frozen, at risk of freezing within 24 hours, or in areas open to direct sun light and wind.
* It should not be applied on old painted surfaces, plaster and exterior coatings.
* During the application, the floor should be protected from the effects of wind and direct sun light.
* After application, hands and application tools should be washed with plenty of water.
* Please consult us for all other application conditions and technical problems.
* YurtKim is not responsible for any issues or damages arising from the use of the product for purposes other than those specified, failure to comply with the specified storage, maintenance and application conditions, or incorrect application.

**COLOR**

Grey

 **SHELF LIFE**

Shelf life is 12 months when stored in its unopened original package in a way that is not exposed to moisture, dry and direct sunlight, provided that it is placed in a maximum of 8 rows on top of each other.

 **PACKAGING**

25 kg± 2% Kraft bags (64 bags on a pallet, 1600 kg)

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| YURTÇİM YAPI KİMYASALLARI SAN. TİC. A.Ş Taşoluk Köyü Merkez/Muş22 |
| TS EN 1504-3 Concrete repair mortar (polymer modified) for structural repairsReaction to Fire : Class A1Class :R3Compressive Strength : ≥25 N/mm2Bending Strength :≥ 4 N/mm2 Adhesive Bonding Strength ≥ 1.5 N/mm2 Chloride Ion Content :≤ 0.05%Resistance to Carbonation: Accepted |