

# TH-500 REPAIR MORTAR



## DESCRIPTION

- Cement based, fibre reinforced repair mortar used in repairing and plastering all kinds of exposed concrete and prefabricated concrete elements.

## INTENDED USES

- Repair of edges and corners on the walls and ceilings of interior and exterior surfaces,
- Repairing non-structural areas,
- Repairing and plastering of aerated concrete, exposed concrete, prefabricated concrete, briquette brick etc. in reinforced concrete buildings and structures,
- Aesthetic repair of concrete elements,
- Filling concrete cavities and repairing cracks,
- Repairing broken prefabricated concrete elements,
- It is used to obtain a smooth substrate before laying ceramics and tiles.

## PROPERTIES

- Can be used in vertical and horizontal applications.
- R2 class.
- Adheres well to concrete and reinforcement.
- Has a waterproof feature.
- Resistant to freeze-thaw cycle.
- There are two types as TH-500 thick and fine aggregate

## SURFACE TREATMENT

- The surface must be clean, dry, smooth and solid.
- The surface must be cleaned from oil, dirt and paint residues that will prevent adhesion.
- Very absorbent surfaces must be saturated with water before application. However, water must not remain on the surface.

## TECHNICAL DATA

Appearance	: Grey powder
Application temperature	: (+5°C) - (+30°C)
Temperature resistance	: (-30°C) - (+80°C)
Application thickness	: TH-500 THICK, 5-20 mm : TH-500 FINE, 3-10 mm
Time required in-between layers	: 3 hours
Time required for foot traffic	: 24 hours
Full curing time	: 28 days
Standard class	: R2
Cavity unit volume mass	: TH-500 THICK, 1900±95 kg/m <sup>3</sup> : TH-500 FINE, 1700±85 kg/m <sup>3</sup>
Grain size	: TH-500 THICK, ≤3.0 mm : TH-500 FINE, ≤0.71 mm
Compressive strength	: ≥25 N/mm <sup>2</sup>
Capillary water absorption resistance (EN 13057)	: ≤0.5 kg/m <sup>2</sup> .h <sup>0.5</sup>
Bond strength formed by adhesion	: ≥0.8 N/mm <sup>2</sup>

- These values are obtained under laboratory conditions ((23±2) °C temperature, 50% relative humidity) and may differ due to worksite conditions.
- MYFIX YILDIZ YAPI KİMYASALLARI SANAYİ VE TİCARET LİMİTED ŞİRKETİ is not responsible for the application errors that may arise if the application conditions and precautions outlined above are not followed for the purpose of the product.

## APPLICATION

- Slowly Pour 25 kg of TH-500 powder into 4.0-4.5 L of water and mix with a low speed mixer until a homogeneous mixture is obtained.
- The prepared mixture should be rested for 5 minutes application and mixed again for 1-2 minutes before application.
- The mortar to be applied is smoothed to the desired thickness with a trowel.
- After the initial setting period of the mortar (45-90 minutes after the external temperature and thickness of the mortar layer), finishing should be completed with a trowel and the surface should be smoothed with a damp sponge.
- Adhesion process should not be performed instead of expired mortar, mortar should be scraped from the surface.
- Applications with a thickness of more than 10 mm should be applied in layers and a minimum of 3 hours should be waited between each layer.

## CONSUMPTION

- TH-500 THICK: 1.90 kg/m<sup>2</sup> (for 1 mm thickness)
- TH-500 FINE: 1.60 kg/m<sup>2</sup> (for 1 mm thickness)

Yıldız Yapı Kimyasalları San. ve Tic. Ltd. Şti.

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## WARNINGS AND RECOMMENDATIONS

- It should not be applied on old painted surfaces, gypsum and aerated concrete.
- The surface must be moistened for 2-3 days after the application.
- It should not be used as a top layer for concrete floor coating on large surfaces.
- Do not breathe the powder or contact with skin or eyes as it is cement-based.
- After application, hands and applications tools should be thoroughly washed with water.
- During application, surface must be protected from wind and direct sunlight.
- The indicated consumption amount is general information and may differ due to application conditions and surface features.

## PACKAGING

- 25 kg Kraft bag (Pallet 64 bag, 1600 kg)

## SHELF LIFE

- Shelf life of an unopened package stored in a dry, cool place is 12 months from the date of manufacture.

## COMPLEMENTARY PRODUCT(s)

- CURE Curing material

## QUALITY CERTIFICATES

<b>CE</b> <b>2163</b> YILDIZ YAPI KİMYASALLARI SAN. ve TİC. LTD. ŞTİ. İstanbul Mermerciler Küçük San. Sit. 18. Cad. No: 22 Köşeler Köyü - Dilovası / KOCAELİ <b>18</b> <b>DoP number: 04.PB 1504-3.004</b>	
<b>2163-CPR-0561-1</b> <b>TS EN 1504-3</b> <b>TH-500 REPAIR MORTAR FINE/THICK</b> <b>R2 CLASS</b>	
Products and systems for the protection and repair of concrete structures-Definitions, requirements, quality control and conformity assessment-Part 3: Structural and non-structural repair Principle 3: Renewal of concrete, Method 3.1 Manual application of mortar, Method 3.2 Casting concrete again	
Compressive strength	≥15 MPa
Chloride ion content	NPD
Bond formed by adhesion	≥0.8 MPa
Limited shrinkage / expansion	≥0.8 MPa
Elasticity module	NPD
Carbonation resistance	NPD
Fire reaction class	A1
Hazardous substance	Suitable

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