

# YAPIFINE MEND®

## EPOXY 2C

Epoxy Based Anchoring and Montage Repair Mortar



EN 1504-3



### Product Definition

Epoxy-resin based, two component anchorage and montage repair mortar.

### Areas of Use

- Planting any kind of ironstone, installation of anchorage elements,
- Crack repair and isolation of concrete, crack injection and crack isolation,
- Sticking dilatation tapes (EPDM, PVC, TPO, TPE)
- Repairing any kind of structural concrete,
- Assembly and adhering of any kind of metal component on concrete or steel component.

### Advantages

- Solvent-free.
- Easy to apply.
- High mechanical strength.
- Watertight.
- Can adhere even on humid surfaces.
- Perfect adhesion on concrete and steel.

### Technical Specifications

Colour	Grey
Mixture Ratio	3 / 1 (Component A / Component B)
Mixture Density	1.80 kg/L ± 0.05
Mixed Product Time Before Use (+20°C)	40 minutes
Service Temperature	Between -15 °C and +90 °C
Application Thickness	min. 2 mm, max. 30 mm
Glass Transition Temperature	≥ 45 °C
Chloride Ion Content	≤ 0.05 %

Time Required for Attaining Full Strength	7 days
Flexural Strength	≥ 20 N/mm <sup>2</sup>
Compressive Strength	≥ 75 N/mm <sup>2</sup>
Adhesive Strength to Concrete	≥ 2 N/mm <sup>2</sup>
Adhesive Strength to Metal	≥ 2 N/mm <sup>2</sup>
Restrained Shrinkage / Expansion	≥ 2 N/mm <sup>2</sup>
Elastic Modulus	> 25 Gpa
Reaction to Fire	Ds2d0

\* Hereby technical values and product application instructions are obtained in the wake of tests conducted in environment of +23±2°C temperature with relative humidity of %50±5. Higher temperatures will shorten the time span, while lower temperatures will extend it.



#### Packaging

Can set of 5 kg  
(Component A: 3.75 kg + Component B: 1.25 kg)



#### Consumption

1.7 kg/m<sup>2</sup> for about 1 mm mortar thickness.

### Surface Preparation

Cement based surfaces (concrete, screed, plaster etc.) should be sound, clean, dust-free, and free from molding oils, curing material, bitumen and other foreign substances. Such materials as mortar and cement residues should be peeled off.

The surface to be repaired should be primed with YAPIFINE BASE EPOXY PRIME or YAPIFINE BASE EPOXY PRIME H for humid places. The repair mortar application should be done while the primer is still sticky.

Clean rust and dirt on metal surfaces.

In case of any water leakage, drain and stop it to ensure dry surface.

### Mixture Preparation

Until both of the components form a homogeneous mixture with each other, they should be stirred for a minimum of 3 minutes with a mixer-headed drill at around 400-600 rpm.

It should be made sure that the temperature of the mixture is between +15 and +25°C during the mixing process.

### Application Information



For Repair Usage; it should be applied by trowel or spatula when the primer is wet on the substrate.

For anchoring reinforcement bars; The hole should be 6 mm larger than the reinforcement to be installed.

The material mixed homogeneously should be poured into the holes which was prepared with necessary diameter and depth. 2/3rd of the depth should be filled.

The reinforcement to be applied should be placed in the hole carefully by rotating slowly. You should observe whether the material over flows.

All tools used should be cleaned up with thinner after the application. Once hardened, mechanical methods are required to free the surface from residual product.

### Application Conditions

Blend the product with appropriate mixing drill. Never mix by hand or trowel.

The pot life changes according to the air ambient temperature. Especially at hot temperatures the amount which will be applied should be adjusted accordingly. The ideal temperature range is +10°C to +20°C.

Never add materials such as water or solvent in the mixture. The final consumption amount might vary depending on application conditions and surface characteristics.

### Shelf Life

The shelf life of the product is 12 months when it is stored on wooden pallets in a cool, dry and moisture free environment with an ambient temperature between +10°C and +25°C.

### Safety Precautions

The application area should be well-ventilated.

The operator should be wearing proper work attire, goggles, mask and protective gloves appropriate to work and worker safety regulations.

In case of contact with the eyes or accidental ingestion of the product seek immediate medical attention.

Rinse with plenty of water in case of contact with the skin. For further information on the safe handling of this product please read the Safety Data Sheet (SDS).