

TRM™400

Polymer Modified Traffic Bearing Repair Mortar

PRODUCT DESCRIPTION

TRM™400 is a single component, fast setting and hardening thixotropic repair, bedding mortar and a ready-to-use material that contains sulphate resistant Portland cement, hydraulic binders, well graded sands, specially selected polymer fibers and special additives provide rapid strength build-up even at sub-zero temperatures, improved durability and unmatched, low drying shrinkage.

When mixed with water TRM™400 forms a plastic / thixotropic mortar which can be easily applied by hand.

TRM™400 can be used in thicknesses from 10 mm up to 150 mm.

PRODUCT FEATURES

- TRM™400 can be opened to all traffic in just 2 hours.
- Excellent application properties.
- Ultra rapid strength build-up.
- Higher thickness possible with the addition of gravel.
- Very high early and final strengths.
- Excellent adhesion and excellent durability.
- Extra low shrinkage for durability.
- Minimized cracking tendency due to constrained shrinkage by PAN fibers.
- Very good reinforcement protection due to very low water absorption and good carbonation resistance.
- Very high resistance to hydrocarbons.

PRODUCT USES

- Bedding small to medium size manhole frames.
- Bedding curb stones and pavement stones.
- Horizontal patch repair areas.
- Inclined patching areas.
- Optimizing traffic management.
- Both internal and external use.
- Use in cold conditions or cold store rooms.
- Applications under the most difficult jobsite conditions.
- very short traffic disruption periods.

HOW TO USE

SURFACE PREPARATION

At the time of application of TRM™400, Concrete must be fully cured, clean and sound to ensure good adhesion. All loose traces of concrete or mortar, dust, grease oil, etc. must be removed.

Damaged or contaminated concrete should be removed to obtain a keyed surface. Non-impact/vibrating cleaning methods, e.g. shot blasting, sandblasting or high water pressure blasting are recommended. Aggregate should be clearly visible on the surface of the concrete structure after surface preparation.

MIXING:

- pour the clean tap water in the mixing container and afterwards, while mixing, add approx. 2/3 of the TRM™400 powder slowly and steadily into the water.
- After 1 minute, add the rest of the powder and mix continuously until a homogeneous mortar is obtained. The total mixing time is 3 to 4 minutes until a homogenous, plastic consistency is obtained. Only use clean uncontaminated water.



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APPLICATION:

- The prepared substrate should be pre-soaked, preferably for 24 hours, but at least 2 hours before applying TRM™400. The surface must be mat-damp, but without standing water.
- Place TRM™400 onto the pre-dampened substrate and overfill to allow for compaction.
- Place TRM™400 onto the substrate, which is already primed by bonding slurry. Scratch the mortar into the roughness of the substrate.

TECHNICAL DATA

Colour	Grey		
Grain Size	3.15 mm		
Chloride Ion Content	≤ 0.05 %		
Layer Thickness	Min	10-25 mm	
	Max	100-150mm	
Fresh Mortar Density	Approx. 2.20 g/cm ³		
Modulus of Elasticity	35,000 N/mm ²		
Compressive Strength	+20°C	+5°C	-5°C
2 hours	31	3	8
4 hours	48	15	18
1 day	62	63	55
7 days	80	83	80
28 days	93	86	86
Flexural Strength			
1 day	≥ 7 N/mm ²		
7 days	≥ 8 N/mm ²		
28 days	≥ 10 N/mm ²		

HANDLING

Approved personal protection equipment should be worn at all times. For example do not eat, smoke or drink while working and wash hands when taking a break or when the job is completed.

Particle mask is recommended for possible airborne particles. Gloves are recommended when handling mortar to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing/gloves/goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.

STORAGE

Store in dry, shaded conditions away from sources of heat and ignition

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FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

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The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.