

EM-70 T

POLYMER MODIFIED FINE REPAIR MORTAR

DESCRIPTION:

Emülzer® EM-70 T is a polymer added, single-component, thixotropic fine repair mortar produced with high quality cement and special granulometric siliceous sand.

USING AREAS:

Used for;

repairing of damaged surfaces that is removed from mold,
repairing of surface defects and segregated areas,
filling gaps up to maximum 5 mm,
repairing and plastering of exposed concrete surfaces,
repairing of broken and damaged prefabricated concrete elements,
chamfering and repairing of corners and edges,
gas concrete, brick and briquette,
obtaining a smooth bottom surface before laying ceramic tiles,
sealing the honeycombs that come up after removing concrete mold.

TECHNICAL PROPERTIES:

PROPERTY	STANDARD	RESULT
COLOR		GREY
COMPRESSIVE STRENGTH	TS EN 196	7 days : 10 N/mm ²
		28 days : 20 N/mm ²
BENDING RESISTANCE	TS EN 196	4,5 N/mm ²
ADHESION TO CONCRETE	TS EN 1542	>0,8 N/mm ²
APPLICATION THICKNESS		Min 1 mm - Max. 5 mm
SURFACE TEMPERATURE		(+5°C) - (+35°C)
SERVICE TEMPERATURE		-20°C + 70°C
POT LIFE		30 minutes
CURING TIME FOR PEDESTRIAN TRAFFIC		24 hours
FULL CURING TIME		28 days
MIXTURE DENSITY		1,47kg/l powder
WATER RATIO		6-6,5 Lt /25 kg mortar
RESTING TIME FOR MIXTURE		3 minutes
WATER ABSORPTION TIME		<5 kg/m ²

ADVANTAGES:

It is especially produced for preparing surfaces for waterproofing applications

Does not crack or form dusting effect

It is reinforced by polymer.

Ensures high adherence without undercoating.

Resistant to water, frost and harsh climatic conditions.

It is economic.

It is ready mixture, it is just prepared by mixing with water

EMÜLZER ASFALTEVİ TECRİT MADDELERİ SANAYİ VE TİCARET LİMİTED ŞİRKETİ

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SURFACE PREPARATION:

The area to be treated should be clean and in good condition.

The surface to be treated should be free from water repellent chemicals, mold grease, dust, cement foam, paint residues, detergent, curing materials, silicon and other substances which may impede adherence. Pouring whitewash such as lime and dispersion paints should be cleaned mechanically.

The surface must be saturated with water if the surface is too absorbent or the surface temperature must be over 25°C.

APPLICATION:**PREPARING THE MORTAR**

6-6,5 liter water is poured into a clean container and combined with Emülzer® EM-70 T with 400 – 600 rpm mixture until the mixture becomes homogenous for trowel application. EM 70 T must be added to water; never vice versa. EM 70 T must be added gradually, not all at once.

The mixture is stirred until it becomes homogenous for 2-3 minutes then should be rest for 3 minutes. After that it must be mixed for 1 minute to be ready for application. Lumps should not be remain in the material. Prepared mortar must be used in an hour, it is not possible solidify mixture by adding extra water.

APPLICATION INFORMATION

Prepared mixture is applied with trowel or by spraying max. 5 mm thickness for one coat. If more thickness is requested the application should be made coat on coat. If the straight end is desired, the material should be waited for absorption to its water and the surface is finished with wooden or steel trowel by strewing water to surface.

After the application of the last coat, the surface must be leveled with a soft, damp sponge.

Fiber mesh reinforcement can be made during the application

After the application it is critical to prevent Emülzer® EM-70 T from drying fast; must be protected from sun, frost, wind and other undesirable weather conditions during the curing period and it must be kept damp for 1-3 days. It is important application area be protected against rapid evaporation for 1 – 3 days by using water, curing blanket, Emülzer Permo Parafin and Emülzer Permo Akril.

EM 70 T reaches final strength after 2 weeks in 23°C. It is not recommended to apply last layer coating before this time.

CLEANING OF TOOLS:

Equipments can be cleaned with plenty amount of water immediately after use. After curing of product, cleaning is only possible by mechanical means.

CONSUMPTION:

1,250 kg/m² for 1 mm thickness

STORAGE – SHELF LIFE:

Unopened packages can be stored in dry and cool conditions, protected from frost for up to 12 months, stacked maximum 10 packages on a pallet.

For short-term storage, maximum 3 palettes should be placed on top and the shipment should be done first in, first out system. For long-term storage the pallets should not be stowed

PACKAGING:

25 kg polyethylene reinforced kraft bag

SAFETY PRECAUTIONS:

Keep out of reach of children (S2).

The eyes and the skin should be protected while working with all kinds of chemicals. (S 24/25)

EM-70 T should be prevented from freezing while in package. Store in a dry place (S 8)

EM-70 T is an alkalic material because of its cement content.

Applying temperature must be between +5°C to +35°C

The values in this data sheet are given for 23°C and 50% relative humidity.

Because this bulleting has been prepared considering the general conditions only, for the details except for the ones written above, please request additional written information otherwise no responsibility will be assumed due to the faults arising because of the insufficient data.

This technical bulletin invalidates the previous ones regarding this product.

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