

AFEC E.R.M.A Ltd.

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אפק א.ר.מ.ע בע"מ

ת.ד. 13379 אזוה"ת הישן, נתניה 4237927  
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**Product name:** M-199

**Supplier:** AFEC e.r.m.a Ltd.

**Manufacturer:** AFEC e.r.m.a Ltd.

**Description:** M-199 is a liquid admixture for manufacturing ready mixed cement mortar that is used for plaster.  
M-199 delays the setting time of the cement mortar for at least 48 hours without changing its characteristics or properties.  
M-199 improves workability of the mortar mixture, its flexibility and adhesive to the background.  
In thin layers of plaster the mortar dries and hardens in its regular way.  
The plaster adhesive strength to the background is between 0.50 – 2 Mpa (depending on the cement amount)

**Fields of application:**

Admixture for manufacturing inside and outside walls plaster.

**Advantages:**

- M-199– enables delivery of ready-mix mortar to construction sites.
- M-199-delays bonding of cement mortar for at least 48 hours (depends on temperature and humidity).
- M-199 lets you control the composition of the mortar and its character (improved adhesive, waterproof and restricted cracking that is caused by the shrinkage of the cement mixture).
- M-199 – enables the mortar to be pumped with a plaster pumping machine.
- M-199 – enables you to connect it directly to the dosing unit at the concrete plant.

**Direction of use:**

M-199 should be added to water and should be mixed for 5-8 minutes in the fastest range possible until foaming.

Load the entire cement amount while mixing and then load all the sand and quarry sand. Keep on mixing for few minutes

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- Precautions and limitations:** Do not apply M-199 to a ready mortar mix.  
Before unloading at the site **do not** mix the mixture in **fast** speed.
- Remark:** Before beginning plastering work, water the wall for at least 10 minutes let it dry and then plaster.  
In temperature lower than 13°C the plaster will harden slower.  
It is recommended not to use mortar in cold climate.
- Accumulation:** Powder
- Chemical Stability:** Stable between 6°C-55°C
- Possible health Influence:** Low toxic range. Do not swallow. May irritate eyes.
- First aid:** Rinse with water and seek medical advice.
- Personal Hygiene:** Do not inhale! Protect eyes during use. Use relevant shield. Rinse hands after use.
- Dosage:** 1 portion (5 kg) for 1m<sup>3</sup> of ready mixed white mortar
- Package:** Bulk 1000 liters