

AFEC e.r.m.a

Product name

UP-1

Supplier

AFEC e.r.m.a Ltd.

Manufacturer

AFEC e.r.m.a Ltd.

Code

002-000200

Description

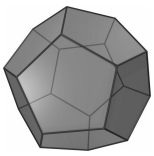
UP-1 is an admixture based on modified polycarboxylic ether (PCE) polymers. *UP-1* offers a raise of the concrete slump in 5 degrees without changing the water cement ratio. *UP-1* can offer production of concrete with high durability and performance. *UP-1* is compatible with most types of cements. *UP-1* complies with the Israeli standard 896 part 1 and EN 934 part 2.

Fields of applications

- Manufacturing of pre-cast elements.
- Manufacturing of ready mixed concrete.
- Manufacturing of self consolidating concrete (SCC).
- Manufacturing high quality and high durability concrete.
- Manufacturing of high performance concrete with high density, low permeability.
- Manufacturing concrete with high early strength (18-24 hours) and final strengths.

Advantages

- Low water/cement ratio.
- Flowable concrete with no segregation or bleeding.



- Less or no vibration required even in case of high steel reinforcement.
- Less workmanship required.
- Improves concrete durability.
- UP-1 can work with low cement content without changing the concrete properties.

Properties

Appearance	<i>Brown liquid</i>
Specific gravity @ 25°C	<i>1.1 ± 0.02 kg/cm³</i>
pH-value	<i>6.5</i>
Solid content	<i>35%</i>
Chlorides' content	<i>Les then 0.005%</i>

Direction of use

UP-1 can be put in the mixer with the first amount of water before the dry ingredients. The mixture should be mixed for 5 minutes in the fastest range possible. Correct the needed water content. At site before discharging mix at high speed for several minutes.

Precautions and limitations

Overdose of UP-1 will make the mix unworkable.

Remarks

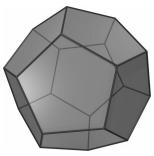
Before beginning the work you should make a trail mix at the laboratory and adjust the concretes desired properties.

Accumulation

Liquid

Chemical Stability

Stable between 0°C-65°C



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Possible health

Low toxic range. Do not swallow.

Influence

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

0.5%-1% of the cement content in 1m³ of concrete.

Package

Plastic containers of 20 liters/ 200 liters drums / 1000 liter mini containers.

Handling & storing

**Closed packages – up to 12 months in closed containers
Do not expose to direct sunshine.**