

APEX[®]

Antifreeze



RAMKA
CONSTRUCTION
CHEMICALS

APEX[®] is a liquid cold-weather admixture that accelerates hydration and mortar setting. It reduces the free water remaining in mortar and thereby helps prevent freezing. Because chloride ions are present, it is not suitable for structures in contact with steel or reinforcement.

Applications

- Unreinforced mortar in winter
- Backing grout for stone and tile installation in winter
- Earlier demoulding of unreinforced precast products
- Repair work requiring accelerated setting

Approvals / Standards

- ASTM C827
- ASTM C494 Type C
- ACI 212.3R-16
- ACI 306R-16
- INSO

Advantages / Benefits

- Accelerates initial mortar setting
- Raises mortar temperature
- Improves mortar performance in very cold weather
- Improves mortar bond strength
- Compatible with Portland cements and mortar admixtures

Guideline for Use

Add APEX during mortar production. Mix it with part of the mortar mixing water, then add the combined liquid to the mix constituents.

Dosage

2 to 5% by weight of cement. Determine the exact dosage from cement content and ambient temperature. Higher cement content generally reduces the required dosage, while lower temperature increases it.

Compatibility

Not suitable for structures in contact with steel or reinforcement because chloride ions are present.

Storage

+10°C to +30°C; store in dry conditions away from direct sunlight.

Packaging

20 kg plastic can / 1100 kg IBC container

Shelf Life

1 year from the date of production in the original packaging.

Health and Safety

- Do not swallow and avoid contact with the eyes.
- In case of accidental contact with the skin or eyes, rinse immediately with plenty of fresh water.
- If swallowed, seek immediate medical attention.
- Refer to the Material Safety Data Sheet (MSDS).
- Non-flammable.

Basis Of Data

Product Information

form_and_color	Liquid / transparent white
density	1.15±0.05 g/cm ³
pH	7±2
chloride_ion	Present



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