



PRODUCT No. : 1.920

ANTICONGELANTE-HM

CHLORIDE FREE ANTI-FREEZING AGENT FOR MORTARS AND CONCRETE

CHARACTERISTICS:

ANTICONGELANTE-HM is a water borne admixture for the mixing water for mortars and concrete, especially recommended when it's desired to apply concrete in winter time.

ANTICONGELANTE-HM is a chloride free, clear, liquid admixture, which is supplied ready to be used, thus allowing its use in presence of metal structures not producing the corrosion effects due to chlorides. The use of **ANTICONGELANTE-HM** in mortars and concrete modifies the final properties:

- Improves the final resistance for the same machinability.
- Improves waterproofness in mortar and concrete.
- Improves the machinability without increasing the amount of water.
- Allows reducing the water without changing the machinability

TECHNICAL DATA:

Appearance.....	:	liquid.
Colour	:	Colourless, light yellow.
Density.....	:	1,25±0,005 kg/l.(20°C).
Solid contents.....	:	35±1%
PH.....	:	7±0,5 (20°C).
Chloride contents...	:	free.
Main function	:	Anti-freezing agent
Secondary function ...	:	Water reduction.
Secondary effect ...	:	Lightly promoting.

USES:

ANTICONGELANTE -HM is especially recommended for all those works with mortars and concrete, which are made in winter time, with light cold during the day but where frost is expected during the night or when cold waves are expected due to the weather conditions of the moment. In general, it can be used whenever it's desired, in winter, to get quality concrete.

METHOD OF USE:

ANTICONGELANTE-HM is supplied ready to use and must be added directly to the mixing water before mixing the rest of the components.

DOSES:

The most recommended dose is using **1% of the cement weight**



IMPORTANT NOTES:

When using **ANTICONGELANTE-HM** all ordinary rules to get quality concrete should be observed. When applying concrete in winter and in cold weather, it's necessary to take into account the following details:

- In case of water, snow or ice on frameworks, moulds or supports, these should be removed, and the structures must be heated if their temperature is below 0 °C.
- When preparing concrete, reduce to the maximum the amount of mixing water and use cement rich compositions. Mix carefully. The temperature of fresh concrete must be at least 5 °C.
- It's recommended to protect concrete against heat and humidity losses.

KEEPING AND STORING:

Keep **ANTICONGELANTE-HM** only in the original containers. If kept in cool and dry places in closed and undamaged containers, protected from frost, it can be stored for three years from production date.

PRECAUTIONS:

Do not swallow. Avoid contact with eyes. Avoid contact with skin. In case of contact, wash immediately the eyes with plenty of water and if you feel unwell, seek medical advice.

PACKAGING:

ANTICONGELANTE-HM in packaged in 30 and 60 kg original, non-reusable plastic containers and in 1000 litre containers.

ADVANTAGES

- **Unexpensive.**
- **Low doses.**
- **Improves final resistance.**
- **Increases frost resistance.**
- **Improves machinability without increasing w/c rate.**

ED.1994/1