



PROANTIFRIZ

750

CONCRETE ANTIFREEZE
ANTI-FROST LIQUID ADDITIVE

ASTM C 494-81 Type C

GENERAL INFORMATION:

It is a reliable and chloride-free plaster, screed and concrete additive that provides high quality concrete casting by accelerating the setting in low temperature weather.

FEATURES

It accelerates the formation of aluminate and silicate gels in the fresh concrete as a result of the reactions of cement with water.

It accelerates the hydration of fresh concrete and enables the concrete to harden and gain strength. Therefore, it helps concrete pouring in cold weather conditions.

Antifreeze, like additives in other alkaline structures, shortens the hardening time of the cement and increases the strength of the concrete in the first hours and days.

Since it does not contain chloride, it does not have a corrosive effect on the reinforcement.

Thanks to a fast setting, it saves time in places where mold is thought to be taken early, and it also provides economy because it reduces the curing application temperature and time.

It increases frost resistance and increases concrete strength.

It enables the concrete strength limit (4-5 N/mm²) required for frost resistance to be exceeded as soon as possible and shortens this period.

PRODUCT INFORMATION:

Chemical Base Inorganic Salt

Appearance Liquid

PERFORMANCE:

At 23°C, 50% RH

Ph 6-10

Density 1.2±0.2 g/cm³

Solids 20±2%

Does Not Contain Chloride < 0.1%

These values have been obtained as a result of laboratory tests performed at 23°C, 50% relative humidity and are valid for the performance of finished applications at the end of the full drying period. Since the temperature and humidity values in the construction site environment and the application surfaces and areas will vary, the values may change.



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USAGE AREAS:

In all kinds of concrete and mortar works in cold weather conditions,
In places where early setting of concrete and mortar is desired,
In cases where the light frost effect continues throughout the day,
It is used when frost is expected overnight.

APPLICATION INSTRUCTIONS:

It should be preferred when the ambient temperature is the highest in the place where screed, plaster or concrete will be poured. Noon hours are the best time to do this application. It is necessary to take additional measures beforehand to protect the surface from frost, rain, dew and frost. PROANTIFRIZ 750 is used in concrete by adding it to the product mixing water or by mixing directly into the newly prepared low slump fresh concrete. When added directly to fresh concrete, the mixing time is increased by 3 minutes at fast speed to ensure homogeneity. Before the concrete is discharged, it should be visually checked that it has a homogeneous consistency.

In the manufacture of screed or plaster, a dry mix is prepared so that approximately 150 kg of sand is added to 50 kg of cement. For 50 kg of cement, it will be sufficient to use 1 kg of PROANTIFRIZ 750. PROANTIFRIZ 750 is added to approximately 5 kg of water (about 2% of the binder) and the dry mixture is opened with this water. Clean, clear water is added until the alum reaches the desired workability consistency.

LIMITATIONS:

Please obey to the application instructions to obtain optimum quality. The application should be done between +5 C and +30 C. It should not be applied in hot, rainy and windy weather. It should not be applied on surfaces where there is a danger of frost. It should be protected from rain, water, frost and negative external factors during the application and for the first 24 hours after the application. e During the application of the product, work clothes in accordance with the occupational and worker health rules should be worn. Appropriate glasses, gloves and masks should be used. Formwork and reinforcement should be protected against water, snow and icing, and should be brought to a minimum of 0°C by preheating when necessary. If possible, wooden formwork should be used instead of steel formwork. Cements with high clinker ratio should be preferred instead of using cement with additives. Molds should be insulated against temperature losses. The fresh concrete temperature should be at least 5-15 C depending on the ambient temperature and the concrete pouring thickness. Loss of temperature and humidity should be prevented by covering or insulating the concrete, and the concrete should be protected very tightly until it reaches the strength limit of 4-5 N/mm². The properties of the product do not change after dissolution. In the use of PROANTIFRIZ 750, local materials should be tried and appropriate concrete mixture should be considered. PROANTIFRIZ 750 should not be added to dry cement.



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PROANTIFRIZ 750 should be added together with the mixing water or at the end of the mixing process. Before use, suitability tests should be carried out

CONSUMPTION:

1-3% of the cement ratio.

PACKAGING:

30 kg drum

SHELF LIFE:

It is 1 year from the date of production in its original packaging in dry and non-humid (temperature between +5 C and +25 C) environments. The lid of the containers should be tightly closed when not in use. It should be kept away from moisture.

STORAGE CONDITIONS:

It should be stored in its unopened original package, in a moisture-free, dry and cool (temperature between +5 C and +25 C) environment. It should not be left under direct sunlight.

SECURITY:

Avoid contact with skin and eyes. Use protective gloves, goggles, mask and clothing. In case of eye contact, seek medical advice immediately. Keep out of reach of children. In case of skin contact, wash with plenty of water and soap. Do not swallow. For detailed information and recommendations, please refer to the Safety Data Sheet.

DEKOSTAR San.ve Tic.Ltd. Şti. is not responsible for any application errors that may occur if the product is used for purposes other than its intended use or if the above-mentioned application conditions and recommendations are not followed. Dekostar reserves the right to change its products. Users should consider the latest edition of the Technical Data Sheet of the relevant product