

750 PROANTIFIRIZ



Concrete Antifreeze
Anti-Frost Liquid Additive

ASTM C 494-81 TipC

PRODUCT DESCRIPTION

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

FEATURES

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

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

Antifreeze, like additives in other alkaline structures, shortens the hardening time of cement and increases the strength of 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 its rapid setting, it not only saves time in places where early molding is planned, but also provides economy because it reduces the curing application temperature and time.

It increases resistance to frost and increases concrete strength.

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

PRODUCT INFORMATION

Chemical Structure : Inorganic Salt

Appearance : Liquid

PERFORMANCE

at 23°C, 50% relative humidity

Ph 6-10

Intensity 1.2±0,2 g/cm³

Solid Part %20±2

Amount of Chloride < %0,1 Does not contain

These values were obtained as a result of laboratory experiments performed at 23°C and 50% relative humidity and are valid for the performance of finished applications at the end of the full drying period.

Values may change as temperature and humidity values in the construction site environment and application surfaces and areas will vary.

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 effect of light frost continues throughout the day,

It is used when frost is expected during the night.



BARS KİMYA -Dekostar Yalıtım İnşaat San. ve Tic.Ltd.Şti
Gürsu Yeni Sanayi Alanı Karahıdır Mah. Okul Yolu Üzeri No:78
Gürsu /BURSA TÜRKİYE

Tel : (+90) 850 888 61 00 Whatsapp Gsm : (+90) 516 168 61 01
www.barskimya.com info@barskimya.com

750 PROANTIFIRIZ



Concrete Antifreeze
Anti-Frost Liquid Additive

ASTM C 494-81 TipC

APPLICATION INSTRUCTIONS

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

In the production of screed or plaster, a dry mixture is prepared as approximately 150 kg of sand to 50 kg of cement. For 50 kg of cement, using 1 kg of PROANTIFIRIZ 750 will be sufficient. PROANTIFIRIZ 750 is added to approximately 5 kg of water (2% of the binder) and the dry mixture is opened with this water. Clean, clear water is added until the screed reaches the desired workability consistency.

LIMITATIONS

To obtain optimum quality, please adhere to the application instructions. Application should be made between +5 C and +30 C. Application should not be made in hot, rainy and windy weather. Application should not be made on surfaces at risk of frost. It should be protected from rain, water, frost and negative external factors during and for the first 24 hours after application. During the application of the product, work clothes that comply with occupational and worker health rules should be worn.

Appropriate glasses, gloves and mask should be used. The formwork and reinforcement must be protected against water, snow and icing, and when necessary, they must be preheated to minimum 0°C. If possible, wooden formwork should be used instead of steel formwork. Instead of using blended cement, cements with high clinker content should be preferred. Molds must be insulated against temperature losses. Fresh concrete temperature should be at least 5-15 C, depending on the environmental temperature and concrete casting thickness. Temperature and moisture loss 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. If PROANTIFIRIZ 750 is frozen in a barrel, it should be thawed and mixed in a place with high ambient temperature and should not be contacted directly with fire. The properties of the product do not change after dissolution. When using PROANTIFIRIZ 750, local materials should be tried and the appropriate concrete mixture should be taken into consideration. PROANTIFIRIZ 750 should not be added to dry cement.

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

CONSUMPTION

1-3% of cement rate .



BARS KİMYA -Dekostar Yalıtım İnşaat San. ve Tic.Ltd.Şti
Gürsu Yeni Sanayi Alanı Karahıdır Mah. Okul Yolu Üzeri No:78
Gürsu /BURSA TÜRKİYE

Tel : (+90) 850 888 61 00 Whatsapp Gsm : (+90) 516 168 61 01
www.barskimya.com info@barskimya.com

750 PROANTIFIRIZ



**Concrete Antifreeze
Anti-Frost Liquid Additive**

ASTM C 494-81 TipC

PACKAGING

30 kg drum

SHELF LIFE

It is 1 year from the date of production in its original packaging in moisture-free and dry environments (temperature between +5 C and +25 C). The mouth 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 packaging in a moisture-free, dry and cool environment (temperature between +5 C and +25 C). It should not be left under direct sunlight.

SAFETY

Avoid contact with skin and eyes. Use protective gloves, glasses, mask and clothing. In case of eye contact, consult a doctor 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.

LEGAL NOTES

Our technical data sheet is DEKOSTAR LTD., which has a wide range of usage areas. ŞTİ. It has been prepared to give general information about the products and to show the technical features of the products. It is a recommendation and this information is about the correct application, ground, air, equipment, etc. It is valid under the conditions and when the products are stored under the recommended conditions.

DEKOSTAR LTD. ŞTİ. Since it cannot control the conditions under which its products are used, it does not accept any responsibility for the application result and does not guarantee it. The user of the product must test its suitability before using the product.

DEKOSTAR San. will be liable for application errors that may occur if the product is used for purposes other than its intended purpose or if the application conditions and recommendations stated above are not followed. and Tic. Ltd. Ltd. is not responsible and has the right to change the features of its products without notice. Users should always refer to the latest edition of the Product Technical Data Sheet for the relevant product.



BARS KİMYA -Dekostar Yalıtım İnşaat San. ve Tic.Ltd.Şti
Gürsu Yeni Sanayi Alanı Karahıdır Mah. Okul Yolu Üzeri No:78
Gürsu /BURSA TÜRKİYE
Tel : (+90) 850 888 61 00 Whatsapp Gsm : (+90) 516 168 61 01
www.barskimya.com info@barskimya.com