

KR-AF 101 TECHNO KRAFT ANTIFREEZE

Setting Accelerator - Fluidifier for Concrete Pouring in Cold Weather

PRODUCT DESCRIPTION

KR-AF 101 TECHNO KRAFT ANTIFREEZE is a fluidising concrete admixture that accelerates the hydration of the cement () to ensure high-quality concrete pouring at low temperatures, enabling the concrete to set early and protecting it from freezing in winter conditions ().

FEATURES

- Provides excellent distribution in concrete, enabling hydration over a larger volume
- Increases early strength development in concrete during cold weather
- Ensures that the concrete strength limit required for frost resistance (4-5 N/mm²) is exceeded in the shortest possible time and reduces this time.
- Does not cause corrosion in the reinforcement within the concrete
- Adds flow-enhancing properties to concrete

APPLICATION AREAS

- In pumped and non-pumped concrete pours
- In lightweight or normal-weight concrete pours
- In concrete where early high strength is required
- In situations where a sudden drop in temperature is expected
- In situations where early formwork removal is required
- In the production of flowable concrete

METHOD OF USE

KR-AF 101 TECHNO KRAFT ANTIFREEZE can be used with superplasticiser-type admixtures to reduce water content, improve flowability, and accelerate concrete hardening. The use of hyper concrete admixtures is not recommended.

Mixing Method

KRAFTBAU CONSTRUCTION CHEMICALS MINING ENERGY GEOTHERMAL INDUSTRY AND TRADE INC.

HEADQUARTERS: Zübeyde Hanım Mah. Sarma Cad. 4/5 Altındağ/Ankara

Ankara Factory: ORHANIYE MAH. 2073. CAD. NO: 27-A KAHRAMANKAZAN/ANKARA

Antalya Factory: ÇIPLAKLI MAH. 2171. Cad. No:14 DÖŞEMEALTI/ANTALYA

E-MAIL: info@kraftbau.com.tr

TEL: 444 6 190

Kraftbau.com.tr

KR-AF 101 TECHNO KRAFT ANTIFREEZE is used by adding it to the mixing water or by mixing it directly into freshly prepared low-slump concrete. When added directly to fresh concrete, the mixing time in the , at high speed, is increased by 3 minutes to ensure homogeneity. The concrete should be visually checked for homogeneity before discharge.

Application:

When using KR-AF 101 TECHNO KRAFT ANTIFREEZE, local materials should be tested and the appropriate concrete mix should be considered. It should not be added to dry cement but should be added with the mixing water or at the end of the mixing process. When pouring concrete in cold weather; Formwork and reinforcement should be protected against water, snow and frost, and preheated to a minimum of 0°C if necessary. Wooden formwork should be used instead of steel formwork where possible. Cements with a high clinker ratio should be preferred over the use of additive cement. The temperature of fresh concrete should be at least 5-15°C, depending on the ambient temperature and the thickness of the concrete pour. Temperature and moisture loss should be prevented by covering or insulating the concrete, and it should be protected very closely until it reaches a strength limit of 4-5 N/mm².

CONSUMPTION

1% of the cement weight. (1000 g of KR-AF 101 TECHNO KRAFT ANTIFREEZE for 100 kg of cement)

PACKAGING

30kg drum.

TOOL CLEANING AND STORAGE

Used tools can be cleaned with water; if the material has dried, it can be cleaned mechanically. When stored in its unopened original packaging in a dry and cool environment (between +5°C and +25°C), the shelf life is 2 years.

TECHNICAL SPECIFICATIONS

Colour	Transparent, colourless
Density	1.15–1.20 ± 0.05 g/cm ³ (at 20 °C)
Solid Content	23% (by weight)
pH value	5–9
Freezing point	< -15°C
Chloride Ion Content	Chloride-free
Setting effect	Accelerates setting
Alkali Content	< 10%

LEGAL WARNING

The information provided here about KRAFTBAU products, and in particular the recommendations regarding their application and end use, is provided in good faith based on EPCO POLYMER's current knowledge and experience under normal conditions and in accordance with EPCO POLYMER's recommendations, provided that these products are stored, handled and applied correctly. Products, application surfaces and application areas vary considerably in practice. Therefore, when using KRAFTBAU products, ensure that you are using the correct product, under the correct conditions and in the correct place, and strictly adhere to the information and instructions provided by KRAFTBAU regarding commercial suitability and/or suitability for a specific purpose. KRAFTBAU shall not be liable for any damages that may arise otherwise. The user of the product (user) must test the suitability of the product for the intended application and purpose. KRAFTBAU reserves the right to change the properties of its products. The property rights of third parties must be respected. All orders are accepted subject to our current terms and conditions of sale and delivery. Users should always refer to the latest version of the local Product Data Sheet, which can be obtained from EPCO POLYMER for the relevant product.

KRAFTBAU CONSTRUCTION CHEMICALS MINING ENERGY GEOTHERMAL INDUSTRY AND TRADE INC.

HEADQUARTERS: Zübeyde Hanım Mah. Sarma Cad. 4/5 Altındağ/ANKARA

Ankara Factory: ORHANIYE MAH. 2073. CAD. NO: 27-A KAHRAMANKAZAN/ANKARA

Antalya Factory: ÇIPLAKLI MAH. 2171. Cad. No:14 DÖŞEMEALTI/ANTALYA

E-MAIL: info@kraftbau.com.tr

TEL: 444 6 190

Kraftbau.com.tr