

KR-ACK 101

TECHNO KRAFT LIQUID CRYSTALLINE

Crystalline Waterproofing for Concrete
Additive

PRODUCT DESCRIPTION

TECHNO KRAFT LIQUID CRYSTALLISED, with its crystallised fibres, fills the capillary pores in concrete, thereby enhancing the concrete's water and reduces water absorption from the surface, and prevents water from passing through capillary cracks.

FEATURES

- It is a ready-to-use product that requires no additional processing.
- During the curing period and upon contact with water, it remains continuously active, filling the capillary voids in the concrete with insoluble nano-sized crystals, thereby providing continuous waterproofing and slightly reducing the setting time.
- In addition to waterproofing, it allows the surface to breathe.
- Since it is added to the concrete mixture in liquid form, it can be used easily without the risk of clumping when compared to powder products.
- It is ideal for pile-supported raft foundation insulation.
- It saves on labour and time.
- It has no adverse effect on the setting or strength of mortar or concrete.
- It does not contain chlorides or other harmful substances that cause reinforcement corrosion.
- Repairs cracks up to 0.4 mm.

APPLICATION AREAS

TECHNO KRAFT LIQUID CRYSTALLINE is used in the following conditions.

- All concrete applications where crystalline capillary waterproofing is required.
- Provides waterproofing by making capillary cracks in concrete hydrophobic.
- In plastered brick wall elements exposed to non-pressurised or low-pressurised water.
- In swimming pool concrete.

KRAFTBAU CONSTRUCTION CHEMICALS MINING ENERGY GEOTHERMAL INDUSTRY AND TRADE INC.

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- In structures such as water channels and tunnels.
- In concrete designed for wastewater treatment plants, dams, culverts, and water storage facilities.
- In structural components where there is a high risk of capillary water absorption.
- To prevent water ingress in areas of water structures subject to tidal action and water splashing.

APPLICATION METHOD

Do not use TECHNO KRAFT LIKIT KRISTALIZE without shaking the container before application.

The water-to-cement ratio of the concrete to which TECHNO KRAFT LIQUID CRYSTALLINE is added should not exceed 0.55.

If the mixture is prepared on-site, add 2% of the cement weight to the ready-to-pour concrete in the concrete mixer and mix for approximately 5 minutes.

If the mixture is prepared at a concrete plant, the product is added to the concrete mixing water and incorporated into the concrete mixture as the final component.

In addition to waterproofing, it allows the surface to breathe.

Waterproofing additives, including TECHNO KRAFT LIQUID CRYSTALLISED, are not effective against high-pressure water. For structures exposed to high-pressure water, external insulation methods are recommended to ensure waterproofing.

Waterproofing additives are not effective in ensuring the waterproofing of mortar and concrete that have developed shrinkage, durability issues, or micro-cracks caused by loading. To achieve the best performance, it is recommended to keep the water-to-cement ratio low, protect the mortar from cracking, and pay attention to curing.

CONSUMPTION

TECHNO KRAFT LIQUID CRYSTALLINE The water/cement ratio of the concrete to which is added should not exceed 0.55. It is added at a rate of 1% to 2% of the cement weight.

PACKAGING

30 kg drums

1000 kg BC

STORAGE / SHELF LIFE

- 24 months from the date of manufacture.
- Store in original packaging at temperatures between +5°C and +30°C.
- Must be stored protected from direct sunlight and freezing.

CLEANING OF EQUIPMENT

Used tools can be cleaned with plenty of water.

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WARNINGS

- The technical recommendations and usage dosages specified in the product technical information pages are written as a good faith recommendation based on the results obtained from trial concretes conducted by the R&D department.
- To determine the optimal usage dosages and application details more accurately, especially considering the differences in concrete components such as the cement used in practice, collaborating with the R&D department will provide the most suitable solution.
- Users must select the appropriate product for their planned technical application and test the product's suitability for the intended purpose.
- Users must strictly adhere to general engineering rules and the usage details specified in the product technical information sheet.
- For product selection and usage details, please contact the R&D and Technical Support department.
- Our company is not responsible for the incorrect or unintended use of products.

SAFETY

If it comes into contact with the skin, rinse thoroughly with water. If it comes into contact with the eyes, rinse thoroughly with water and seek medical attention immediately. Detailed safety information is available in the product's MSDS form.

TECHNICAL SPECIFICATIONS

Colour	White - Liquid
Density	1.01–1.05 g/l (at 20 °C)
Chemical Origin	Inorganic compounds
pH	(3–7)
The information contained in this technical data sheet is based on data obtained from laboratory tests. The correct application of our original product is the responsibility of the user. Our company is only responsible for the quality of the product. This data sheet supersedes all previous information. Our company reserves the right to make changes to any information contained in this data sheet.	

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