

K-GROUT

CRYSTALLINE WATERPROOFING
TREATMENT FOR CONCRETE



DESCRIPTION

K-GROUT is a crystalline waterproofing powder treatment designed to make existing concrete waterproof against both positive and negative water pressure. The product protects concrete from water penetration by chemically sealing pores and capillaries through crystalline technology.

K-GROUT is suitable for application on existing horizontal and vertical concrete substrates after thorough pre-wetting, or it can be applied as a dry-shake treatment on fresh concrete. The chemical reaction between the active ingredients, unhydrated cement particles and water generates insoluble calcium di- and trisilicate crystals, which permanently block capillary voids and microcracks.

Concrete treated with K-GROUT becomes waterproof and resistant to waterborne contaminants. Thanks to its active components, the crystallisation process is permanently reactivated in the presence of water, providing self-healing capability for microcracks up to 0.5 mm (Crack Self-Healing).

FIELDS OF APPLICATION

- Existing concrete structures;
- Concrete retaining walls and below-grade structures;
- Horizontal and vertical concrete surfaces;

PRODUCT DATAS

Component system	One-component
Appearance	Granular powder
Specific weight	1.25 kg/L
Dry residue	100%
Pot life	Approx. 30 minutes

CONSUMPTION

1.8–2.0 kg/m² applied in two coats. Consumption values are based on application on smooth substrates in good condition. Highly porous substrates, temperature and application method may affect actual consumption.

TECHNICAL DATA

Parameter	Result	Standard
pH	≈ 13	ASTM C39
Penetration rate	273 mm/week	EN 12390-8
Water resistance	170 m.c.	EN 12390-8
Crack self-healing	≤ 0.5 mm	-

COLOURS

- Greyck

PACKAGING

- 20 kg bags



Date 15/10/2025



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APPLICATION SUBSTRATE PREPARATION

Substrate preparation is essential. Substrates must be clean, sound and free from contaminants. Extremely smooth surfaces must be mechanically or chemically roughened. Before application, thoroughly pre-wet the substrate to saturation without standing water. Cracks wider than 0.5 mm must be opened and repaired using K-SPLIT prior to application. Apply K-GROUT evenly in two coats by brush, roller or airless spray. In hot conditions, re-wet the surface between coats.

CLEANING OF TOOLS

Clean tools immediately after use with water. Cured material can only be removed mechanically.

STORAGE

Store in original sealed packaging in a dry place at temperatures between +5 °C and +25 °C. Shelf life: 12 months.

HEALTH AND SAFETY

Refer to the latest Safety Data Sheet for instructions on handling, storage and disposal. Do not release product or empty containers into the environment.

For PROFESSIONAL USE ONLY.

LEGAL NOTICE

The information and recommendations given above, although they correspond to our best experience, must in any case be considered purely indicative and must be confirmed by exhaustive practical applications. Therefore, before using the product, anyone who intends to make use of it must determine whether it is or is not suitable for the intended application and, in any case, assumes all responsibility that may arise from its use. Always refer to the latest updated version of the technical data sheet, available on the website btechitalia.eu.

Date 15/10/2025