

# PROTECT NTI

Item No 2930

**Non-film forming impregnation acc. to DIN EN 1504-2 for fresh and hardened concrete**

## FIELDS OF APPLICATION

PROTECT NTI is a specially designed impregnation for creating hydrophobic concrete surfaces. The colour-neutral impregnation meets the requirements of DIN EN 1504-2 subject to the test report P7091 of Kiwa Poymer Institut which approves its performance.

PROTECT NTI is a high-quality impregnation for concrete surfaces in transport and facade constructions and is also suitable for the production of manufactured concrete products.

It is suitable for all mechanically processed or finished concrete surfaces and can be applied on both fresh and hardened concrete surfaces.

PROTECT NTI generates a hydrophobic effect on concrete's surfaces. As a result the absorption of water and its therein dissolved substances is minimised. Concrete's frost- and freeze-thawing salt resistance is significantly increased, thereby.

Consequently, PROTECT NTI makes a contribution to producing durable and sustainable concrete.

## APPLICATION QUANTITY

Depending on the surface structure and its absorbing abilities the necessary amount might vary between 100 – 250 g/m<sup>2</sup> and has to be determined for each single application.

The less damp exists in the capillary system of the surface to be treated, the deeper is the penetration of PROTECT NTI which enables the formation of the maximum hydrophobic effect.

## WORKING PRINCIPLE

PROTECT NTI deeply enters the concrete structure and reacts with its cement-based substrates in order to generate a hydrophobic capillary system. This effect reduces the capillary suction and decreases concrete's water absorption abilities. The occurrence of frost damages are significantly reduced thereby.

The applied protective film is not yellowing, is weather-proof (UV-stable), permeable to water vapour and resistant against alkali loads.

## TECHNICAL DATA

Homogeneity	homogenous
Colour	colourless to brownish
State	liquid
Density	0.88 ± 0.02 g/cm <sup>3</sup>
Workability	from +5 °C to +25 °C
Shelf life	approx. 1 year from date of production if stored properly
Storage conditions	Store in unopened, original sealed packaging between +5 °C and +25 °C. Protect from frost and insolation.

## PROCESSING INDICATIONS

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The surface to be treated must be firm, clean, absorbent and free of loose particles. Curing- and separating agents have to be completely removed.

PROTECT NTI is either applied evenly to the surface with a suitable spraying system or rolled evenly to it.

Until PROTECT NTI is completely cured the treated surface must be protected from water (e.g. rain).

The hydrophobic effect advances with the proceeding chemical reaction process and reaches its full effect 14 days after application.

**Note: Changes in cement sort, water/cement ratio etc. might lead to colour variations in concrete.**

This product is classified as hazardous according to the CLP regulations. See safety data sheet for further information.

## PACKAGING

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- 30 l can
- 200 l barrel
- 1000 l container

## REMARKS

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This information describes the application- and processing possibilities of a product and its operation principles under regular conditions. Having no influence on the further application and processing, especially in conjunction with other construction materials, the given indication are neither a warranty in respect of the product's properties or its fitness for a particular purpose nor a full instruction of use. This information, any other recommendation or verbal advice are not binding and do not infer to any liability or legal demand.

Due to continuous further development, the most recent Technical Data Sheet is valid and will be supplied on request. All orders are accepted subject to our current general terms and conditions.

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**SUITABILITY- AND PRE-TESTS ARE NECESSARY BEFORE APPLYING THE CONCRETE ADMIXTURE!**