

# PROTECT TIR

Item No 2660

**Non-film forming impregnation for the dry side of concrete production**

## FIELDS OF APPLICATION

PROTECT TIR is a non-film forming impregnation for manufactured concrete goods like slabs and paving and is also suitable for sandstones and terrazzo.

PROTECT TIR generates a protective film with excellent water- and oil repellent effects. The occurrence of moss- and algae growth is significantly reduced and concrete's dirt rejection is considerably improved. Stain and dirt can be removed easily from surfaces.

PROTECT TIR is suitable for all mechanically processed or finished concrete surfaces (such as grinded, polished, washed, blasted and kernelled surfaces) and is applied on hardened concrete / on the dry side of concrete production.

## APPLICATION QUANTITY

Depending on the surface structure and its absorbing abilities the necessary amount might vary between 100 – 200 g/m<sup>2</sup> and has to be determined for each individual application.

## WORKING PRINCIPLE

PROTECT TIR deeply penetrates the concrete structure and reacts with its cement-based substrates in order to generate the so called lotus effect. Water and liquid dirt substances roll off the surface and do not enter into the concrete. The occurrence of stain is considerably decreased thereby.

## TECHNICAL DATA

Homogeneity	homogenous
Colour	colourless
State	liquid
Density	1.01 ± 0.02 g/cm <sup>3</sup>
PH-value	4.5 ± 1
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 TIR should be evenly applied to the surface with a suitable spraying system.

The impregnation's full effect advances with the proceeding reaction process and reaches its full effect after approx. 48 hours.

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

This product is not classified as hazardous according to the EC directives, regulations on hazardous substances and forwarding instructions. The generally accepted precautions for handling chemicals must be followed. The corresponding Material Safety Data Sheet is available upon request.

## 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.

Edition: 05 August 2019

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