

# DURAHIT® Concrete Impregnation 100

Item No 2931

Premium impregnation system acc. to DIN EN 1504-2 for concrete traffic areas

## FIELDS OF APPLICATION

DURAHIT® Concrete Impregnation 100 is a premium impregnation system especially designed for achieving depth hydrophobization for optimum protection in demanding concrete projects.

The impregnation is suitable for concrete with advanced requirements in durability and quality and where it deserves protection against water, weather, and chemical loads. DURAHIT® Concrete Impregnation 100 is particularly suitable for the application in:

- Concrete traffic areas in airport constructions like runways, aprons, parking areas
- Concrete traffic areas in road constructions like high- and motorways
- New Jersey barriers
- Tunnel constructions
- Sea ports
- Buildings and bridges
- Industrial flooring

The depth impregnation system achieves a very effective protection mechanism which provides the following benefits:

- Optimum water repellence
- Decreased steel corrosion
- Increased frost- and thawing salt resistance
- Enhanced resistance against defects

These properties lead to the following advantages:

- Reduced maintenance costs
- Attractive long-term appearance
- Contribution to Sustainability

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.

## APPLICATION QUANTITY

Depending on the surface structure and its absorbing abilities the necessary amount might vary be-

tween 100 – 250 g/m<sup>2</sup> and has to be determined for each single application.

## WORKING PRINCIPLE

DURAHIT® Concrete Impregnation 100 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. 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.

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
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.

DURAHIT® Concrete Impregnation 100 is either applied evenly to the surface with a suitable spraying system or rolled evenly to it.

Until DURAHIT® Concrete Impregnation 100 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.

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 is 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: 31 March 2023

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