




KÖSTER Iperlan

Technical Data Sheet P 241

Issued: 2021-06-03

Test Certificate 50251-17, Official Material Testing Institute of Bremen, testing of performance requirements according to the DIN EN 1504-2:2004
 Test Certificate 50251-17, Official Material Testing Institute of Bremen, testing of according to NT Build 515 and NT Build 357, 01.19.2018
 Certified by the Finnish road authority

Highly effective hydrophobizing impregnation agent for concrete in civil engineering construction

 0761	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 18 P 241 EN 1504-2:2004 ZA.1.a KÖSTER Iperlan Surface protection products - Hydrophobic impregnation Protection against ingress (1.2) Regulation of the moisture balance (2.1) Increase of the electrical resistance (8.1)
Capillary absorption and permeability to water	≤ 0.1 kg/m ² h ^{0.5}
Mass loss after frost/deicing alternating stress	≥ 20 Cycles later
Drying speed	Class I ≥ 30 %
Water absorption and alkali resistance	≤ 7,5 % ≤ 10 % (after alkaline immersion)
Depth of penetration	Class II
Hazardous substances	NPD

Color	Yellowish, cloudy. Transparent after cure
Viscosity (+ 20 °C)	approx. 500 mPa·s
Capillary water uptake	w less than 0.1 kg/m ² h ^{0.5}
Density (+ 20 °C)	0.91 g/cm ³
Depth of penetration	approx. 19 mm (Class II)
Absorption coefficient (dipped in 5.1 % Alkali solution)	3.5 %
Average penetration depth	19.5 mm
Active ingredients	> 90 %
Drying speed	194%
Application temperature	+ 5 °C to + 30 °C
NT Build 515 (Chloride permeability)	Filter effect 0.81

Fields of Application

KÖSTER Iperlan is used for the after-treatment of concrete in civil engineering structures such as bridge heads, supporting walls, beams, etc., as well as all exposed construction members.

Substrate

The substrate must be dry, free of laitance, oils and fats. New concrete must cure for at least 28 days before application. Prepare the substrate by high pressure water jetting or intensive brushing. Pressure washed surfaces must dry before application.

Application

KÖSTER Iperlan is ideally tempered to approx. + 20 °C before processing and mixed with an electric stirrer (under 300 U / min) until homogenous. The Material can be applied with the KÖSTER Peristaltic Pump or other suitable spraying equipment, or with a brush. Adjacent areas which are not to be treated must be protected from the spray. Road surfaces must be protected as accidental application to the road surface can result in reduced grip. Cover glass panes completely. 24 hours after application surface residues can be mechanically removed by brushing. Apply from higher areas to lower. Use low pressure to reduce Protect treated areas for at least 24 Hours from moisture exposure such as rain. A test application is recommended before works commence in order to determine consumption.

Consumption

Approx. 500 to 600 ml/m² depending on porosity of the substrate.

Cleaning

Clean tools and spraying equipment immediately after use with water.

Packaging

P 241 025 25 l hobbock

Storage

Store the material dry and frost free between + 5 °C and + 25 °C. In

Features

KÖSTER Iperlan is used for the treatment of concrete to reduce the penetration of substances harmful to concrete such as chlorides or other aqueous media. KÖSTER Iperlan is characterized by easy spray application. Due to a combination of its composition and active ingredients the material penetrates deep into the concrete structure and therefore helps protect the reinforcement steel. KÖSTER Iperlan is an OS 1 (A) Surface Protection System according to the RiLi SIB (DAFStB- classification 18026), ZTV-ING.

KÖSTER Iperlan does not affect the breathability of the concrete. It reduces algae formation by drying the substrate.

KÖSTER Iperlan is certified by the Finnish road authority.

Technical Data

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

originally sealed packages, the material can be stored for a minimum of 12 months.

Safety

Wear protective gloves and goggles when processing the material. Observe all governmental, state, and local regulations when processing the material.

Other

KÖSTER Iperlan can dissolve bitumen, cover bituminous areas before applying.

Related products

KÖSTER Brush for Liquids

Prod. code W 912 001

KÖSTER Peristaltic Pump

Prod. code W 978 001

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