

Premium surface- and mass hydrophobic agent for concrete and concrete products based on siloxane/silane

## APPLICATION:

- » Concrete goods production
- » Concrete pipe production
- » Precast plant

## ADVANTAGES:

- » Hydrophobic effect
- » Reduced water absorption
- » Effectively reduced efflorescence
- » Improved frost and de-icing salt resistance
- » Visual enhancement of colored concrete products

## PROPERTIES

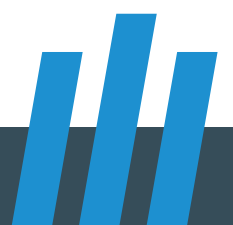
**3CS® ConGuard HYDRO PAVE 530** is a solvent-free, newly formulated, ready-to-use hydrophobic emulsion for the concrete processing industry. **3CS® ConGuard HYDRO PAVE 530** is developed on the basis of reactive siloxanes/silanes. **3CS® ConGuard HYDRO PAVE 530** is mixed into the concrete to achieve a permanent reduction in water absorption after curing. Hydrophobization of the concrete matrix reduces capillary water transport in the concrete. This impedes the penetration of water and/or dissolved salts into the concrete considerably, the capillary suction effect is drastically reduced and thus the tendency to efflorescence is significantly restrained. The durability of the concrete block is significantly increased. In addition, the concrete surface is better protected from weather effects.

## ADVANTAGES

The use of **3CS® ConGuard HYDRO PAVE 530** creates a hydrophobic effect and reduces water absorption after the concrete has hardened. This increases resistance to weather influences and efflorescence. The visual appearance of the construction material is not affected. Color deepening can occur, especially with colored concretes. The physical building properties are not impaired, especially the breathability (sd value) is fully retained.

## PROCESSING AS MASS HYDROPHOBIC AGENT

Add **3CS® ConGuard HYDRO PAVE 530** to the concrete mixer after the mixing water has been added. Do not dose into the dry mixture. To optimally exploit the potential of the admixture, the concrete temperature should be above 10 °C, and a sufficient mixing time should be observed. The recommended dosage range is between 0.50 - 1.50 % of the cement weight. **3CS® ConGuard HYDRO PAVE 530** should be homogenized regularly before use.



## APPLICATION AS SURFACE PROTECTION

**3CS® ConGuard HYDRO PAVE 530** can be applied to the construction material by spraying, flooding, brushing or rolling. To ensure deep penetration of the hydrophobic agent into the construction material, it must be dry and clean and have sufficient absorbency. A high penetration depth is the prerequisite for long-lasting and reliable hydrophobization of the construction material. We recommend determining the required application quantity by carrying out appropriate preliminary tests with the construction material. **3CS® ConGuard HYDRO PAVE 530** is less suitable for less-absorbent construction materials such as marble. **3CS® ConGuard HYDRO PAVE 530** should be homogenized regularly before use.

## STORAGE CONDITIONS

Protect the containers from frost and direct sunlight. Maintain a storage temperature between +5 °C and +30 °C. In originally sealed containers and under the specified conditions, **3CS® ConGuard HYDRO PAVE 530** can be stored for approx. 9 months from the date of delivery. The product can still be used after the specified storage period has expired. In this case, however, we strongly recommend checking the product for possible bacterial and fungal infestation before use.

## SPECIAL STORAGE AND USAGE INSTRUCTIONS

- Store the product in a cool and dark place as far as possible.
- To avoid contamination with bacteria and fungal spores from the ambient air, do not open the containers before the product is to be taken and then immediately close them again airtight. Particular care must be taken with plastic lidded drums to ensure that no dirt or dust from the environment falls into the containers when the lid is open. Please close the containers tightly again immediately after taking the product.
- If scooping tools are used, they must be thoroughly cleaned and dried before being immersed in the product.
- Use up the product quickly after opening the container for the first time.

## SAFETY INSTRUCTIONS

Please observe the hazard warnings and safety advice on the labels and in the safety data sheets.

## TECHNICAL SPECIFICATIONS

<b>COMPOSITION</b>	Hydrophobization based on reactive, organo-modified siloxanes/silanes
<b>DENSITY</b>	approx. 0.98 g/cm <sup>3</sup>
<b>STATE</b>	liquid
<b>DOSAGE</b>	0.50 - 1.50 M-% of the cement weight
<b>COLOR</b>	bright, translucent

ARTICLE NUMBER	UNIT	PACKAGING UNIT
<b>B312043142851</b>	kg	1,000 kg IBC
<b>B312043142861</b>	kg	200 kg drum
<b>B312043142882</b>	kg	25 kg can

This data sheet, like our other technical information, serves only to describe the nature of this product and the processing and application options. However, it is not intended to guarantee certain product properties or fitness for a specific purpose, and the description does not contain complete instructions for use. As we reserve the right to make changes to our data sheets, it is the customer's responsibility to ensure the availability of the up-to-date data sheet. Current information sheets can be requested at any time from any of our premises. Typos, technical changes and errors excepted. In addition, our general terms and conditions apply.  
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