

## **VOGA SEAL-C100**

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VOGEL SYSTEMS Technical data sheet

Date / Revised: 19.09.2018

Product: **VOGA SEAL-C100**

**Version: 1.0**

Date of print 20.09.2018

### **1. Identification**

#### **Product identifier**

**VOGA SEAL-C100**

#### **Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses: Product for construction chemicals

Recommended use: for industrial and professional users



#### **Details of the supplier of the safety data sheet**

Company:

VOGEL SYSTEMS

Operating Division Construction Chemicals

E-mail address: [info@vogel-systems.de](mailto:info@vogel-systems.de)

#### **Emergency telephone number**

International emergency number

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## **CEMENTITIOUS CRYSTALLINE ADMIXTURE**

### **DESCRIPTION**

**VOGA SEAL-C100** is a chemical admixture for the waterproofing and protection of concrete , added to the concrete mix at the time of batching . The reaction generates a non-soluble crystalline formation throughout the pores and capillary tracts of the concrete that permanently seals the concrete and prevents the penetration of water and other liquids from any direction.

### **APPLICATION FIELDS**

**VOGA SEAL-C100** can be used for : Sewage and Water Treatment Plants , Tunnels and Subway Systems , Foundations / Basements , Precast Components , Parking Structures , Swimming Pools , Bridge Structures .

### **ADVANTAGES**

1. Resists hydrostatic pressure .
2. Becomes an integral part of the substrate .
3. resistant to aggressive and chemical environments.
4. Crack sealing up to 0.4mm .
5. No VOCs & non-toxic .

### **CONSUMPTION**

Estimated consumption for **VOGA SEAL-C100**

Powder phase 1.25 – 1.75 % by weight of cement  
soluble phase 0.75-1.25 kg/m<sup>3</sup>

The recommended minimum consumption for Admix is 5 kg/m<sup>3</sup> ; the maximum consumption is 6kg/m<sup>3</sup> .

### **PACKAGING**

**VOGA SEAL-C100** available in 20kg pails or in a variety of soluble bag sizes.

### **APPLICATION INSTRUCTIONS**

**VOGA SEAL-C100** is added to the concrete at the time of batching. It is important to obtain a homogeneous mixture. Do not add dry Admix powder directly to wet mixed concrete. The sequence for addition will vary according to the type of batch . The following is recommended .

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## DIRECTION FOR USE

### 1. ADDITION TO COARSE AGGREGATE BELT

Add Admix powder directly to the coarse aggregate conveyor belt manually or through a computer controlled mass batching system.

### 2. TRUCK ADDITION (AT PLANT)

Add Admix in bulk powder or soluble bag form to the drum of the ready-mix truck to drive batch plant and add the balance of the materials in accordance with standard batching practices.

Measures to ensure soluble bags are dispersed, adding a small amount of batch water with the bags, and spinning the drum prior to add remaining ingredients.

Avoid delays in adding other components and high speed mixing to ensure homogeneity of mix.

### 3. ADDITION TO CENTRAL MIXER

Load the Admix in bulk powder form or in soluble bags to the drum of the central mixer prior to adding the other components.

Mix as per standard batching practices to ensure thorough dispersal of the Admix resulting in a homogeneous mixture..

## TECHNICAL DATA

Product characteristics	
PERMEABILITY ( CRD C48-73 )	150psi / 1.04MPa
COMPRESSIVE STRENGTH (ASTM C 39)	7160psi / 49.5MPa
CHEMICAL RESISTANCE (CSN 73 1326)	a mass loss between 5 and 50g/m <sup>2</sup>
CRACK SEALING ( ASTM C1585 )	up to 0.4mm
FREEZE/THAW DURABILITY (ASTM C 666)	94%
POTABLE WATER EXPOSURE (NSF 61)	no harmful effects

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## **LIMITATIONS**

When incorporating **VOGA SEAL-C100**, the temperature of the concrete mix should be above 10°C..

## **STORAGE**

Twelve months in its unopened original packaging. Store in a cool, dry and covered place, protected from moisture , frost and direct sunlight , with temperatures between 5 °C and 30 °C.

## **CLEANING**

Tools and equipment should be cleaned, immediately after use, with water. Once product cures, this can only be removed by mechanical means.

## **SAFETY AND HEALTH**

**VOGA SEAL-C100** is :

- a non-toxic product but direct contact with skin and eyes must be avoided .
- Use rubber gloves and safety goggles when handling, mixing and applying the product.
- Working areas should be well ventilated.