BUILDING TRUST

PRODUCT DATA SHEET

SikaCem® K11 CWA EC

(formerly EnviroCrete)

CRYSTALLISATION WATERPROOFING ADMIXTURE

DESCRIPTION

SikaCem® K11 CWA EC is an integral waterproofing consisting of Portland cement, treated silica sand and various active chemicals. Added to concrete at batching, SikaCem® K11 CWA EC generates non-soluble crystals throughout the capillaries and pores in the concrete, creating a physical barrier to water.

USES

- Basements
- Tunnels
- Water tanks
- Precast concrete
- Water retaining structures

CHARACTERISTICS / ADVANTAGES

- Maximizes waterproofing of concrete
- Will withstand extreme hydrostatic pressure > 7 bar
- Exceptional durability at -20°C to 50°C
- Reduces shrinkage and cracking
- Protection of concrete against certain aggressive chemicals including chloride attack to steel reinforcing
- Seal static cracks up to 0.4 mm
- Complies with SS 375: 2001 – Potable water

PRODUCT INFORMATION

Packaging	20 kg/bag	
Shelf Life	12 months from the date of production	
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions. Keep away from direct sunlight and frost.	
Chemical Resistance	Resists mild acids and caustic materials in the pH range 3 - 12	
Resistance to Water Penetration	< 20mm @ 5 bar for 72 hours	(BS EN 12390-8:2009)
Water permeability	< 5.0×10^{-13}	(BTD/TP/02/2002)
Curing Treatment	Normal practices for placing and curing concrete should be followed as laid out in your local standards.	

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

APPLICATION

For waterproofing concrete, the recommended addition rate for SikaCem® K11 CWA EC is 0.8% - 1.2% by weight of cement. For enhanced chemical resistance please consult with Sika to determine the approximate addition rate. SikaCem® K11 CWA EC is added to the concrete at the time of batching. The sequence of procedures for addition will vary according to the type of batch plant operation and equipment.
An ideal water cement reatio of <0.42, and should not exceed 0.45 to ensure SikaCem® K11 CWA EC performs as specified.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sika (Singapore) Pte Ltd.
28 Tuas South Ave 8
Singapore 637648
Phone: +65 6861 0632
Fax: +65 6862 3915
Email: sales@sg.sika.com
www.sika.com.sg