

PRODUCT DATA SHEET

SikaCem®-133 K11 CWA

(formerly Davco® K11 CWA)

CRYSTALLINE WATERPROOFING ADMIXTURE



DESCRIPTION

SikaCem®-133 K11 CWA (Crystalline Waterproofing Admixture) is a special cementitious mix of active chemicals that readily reacts with moisture in the concrete to form crystalline structures within the pores and capillary tracts of the concrete. SikaCem®-133 K11 CWA effectively waterproofs the concrete against ground water penetration from any direction, protecting against waterborne salts and eliminating concrete decay.

SikaCem®-133 K11 CWA, an integral waterproofing system that gives a strong and lasting protection from harsh environmental conditions, is ideal for interior and exterior below grade concrete structures. As conditions on project sites and temperature varies, please contact technical professionals for advice on the use of SikaCem®-133 K11 CWA for your specific project.

USES

- Foundations
- Sewage Treatment plants

- Tunnels and subway systems
- Underground structures
- Dams
- Pre-cast structures
- Swimming pools and reservoirs

CHARACTERISTICS / ADVANTAGES

- Long lasting integral waterproofing system
- Self healing, crack sealing characteristics
- Resists extreme hydrostatic pressure
- Protects concrete from harsh conditions
- Cost effective and process friendly system
- Non-toxic and resistant to waterborne chemicals
- No detrimental effect to the performance of the concrete when recommended conditions are met

APPROVALS / STANDARDS

Singapore Green Building Product (Leader) Cert. No. SGBP 3431

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.
Soluble Chloride Ion Content	< 0.2 % (EN 480-10)

TECHNICAL INFORMATION

Water Penetration under Pressure	< 20 mm (BS EN 12390-8)
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APPLICATION INFORMATION

Recommended Dosage

Recommended dosage is between 0.8 % - 1.0 % by the weight of cement.

Setting Time

Concrete setting time is subject to the chemical and physical ratio of the mix in conjunction with site conditions and temperature. The mix design and dosage should be tailored in conjunction with the SikaCem®-133 K11 CWA admixture recommendations. Trial mixes should be conducted under site condition to determine the setting time and strength of the concrete.

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.

MIXING

SikaCem®-133 K11 CWA is to be added to the concrete during the batching process. For ready-mix plant batching, SikaCem®-133 K11 CWA is added directly into the mixing drum and batched in accordance with standard practices. In all cases, total quantity of water to be added in the design mix should take into consideration the amount of moisture from aggregate and sand on site.

Precaution

For a homogeneous mix of SikaCem®-133 K11 CWA with the concrete mix, it is recommended to add the dry SikaCem®-133 K11 CWA powder into a dry concrete mix and mix thoroughly as SikaCem®-133 K11 CWA may not disperse properly when it is added directly into a wet concrete mix. When using SikaCem®-133 K11 CWA in the mix, ensure that the concrete mix temperature is above 5 °C.

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.

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