

PRODUCT DATA SHEET

SikaControl®-739

(formerly MP 739)

A LOW DOSAGE HYDROPHOBIC PORE-BLOCKING ADMIXTURE FOR WATER RESISTANT CONCRETE AND MORTAR

DESCRIPTION

SikaControl®-739 is a hydrophobic pore-blocking ingredient (H.P.I) which imparts water resisting properties for concrete / mortar. It reduces water absorption and water permeability of concrete significantly and enhances durability of concrete.

SikaControl®-739 is a chloride free organic admixture. It reacts with the cement hydration products to form a hydrophobic ingredient to reduce the capillary suction and prevent the ingress of water / potentially deleterious soluble material.

USES

SikaControl®-739 is suitable for any concrete structure, which requires watertightness, such as:

- Basement walls / floors, Underground car parks
- Tunnels / underpass / airport or station buildings
- Foundations, piles and pile caps
- Water retaining structures, swimming pool, water tanks, reservoirs, water towers
- Land drainage, manholes
- Reinforced concrete in marine environment subject to tidal and wet/dry cycling
- Waste water treatment and desalination plant

PRODUCT INFORMATION

Packaging

- 200 L/ 190 KG drum
- 1 000 L tank

Shelf Life

For 12 months in tightly sealed original packaging.

Storage Conditions

Stored at temperatures above 5°C.

CHARACTERISTICS / ADVANTAGES

- Very low absorption – Increased durability and water tightness
- Very low water permeability – Favourable values indicate imperviousness
- Integral system – Protection is maintained throughout the concrete matrix
- Ammonia free – Environment friendly. Fully compatible with certain surface coating and finishes

APPLICATION INFORMATION

Curing Conditions	Like all cementitious product, concrete made with SikaControl®-739 must be protected against rapid drying due to high temperature and/or strong wind. The use of wet burlap, plastic sheets or a curing compound is highly recommended.
Dispensing	SikaControl®-739 should be added separately to the initial batching water to ensure complete distribution throughout the mix. Do not use seawater, bore water or water containing a high dissolved mineral of content, for mixing concrete.
Consumption / Yield / Dosage (PRINT single line)	<p>The optimum dosage for SikaControl®-739 to meet a specific requirement should always be determined by trial mixes. It is compatible with all types of cements – normal and blended – as well as addition of supplementary cementitious materials (SCMs). It is also compatible with all Sika concrete admixtures.</p> <p>Recommended dosage rate is 1.5 to 2.5 litres per m³ of concrete, depending on specification requirements.</p> <p>Consult local team for assistance in admixture selection and determining dosage and support on mix design.</p>

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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