

## PRODUCT DATA SHEET

# SikaControl®-739

(formerly MasterPel® 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

#### 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

#### PRODUCT INFORMATION

<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ 200 L/ 190 KG drum</li> <li>▪ 1 000 L IBC tank</li> </ul>
<b>Shelf life</b>	For 12 months in tightly sealed original packaging.
<b>Storage conditions</b>	Stored at temperatures above 5°C, in tightly sealed original packaging. If found to be frozen, thaw it at 20°C and reconstitute by stirring.
<b>Appearance / Colour</b>	Liquid/ brown.

#### TECHNICAL INFORMATION

<b>Curing Conditions</b>	Like all cementitious product, concrete made with SikaControl®-739 must be protected against rapid drying due to high temperature and/or strong wind. Effective measures for concrete curing must be followed.
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# APPLICATION INFORMATION

<b>Recommended Dosage</b>	The optimum dosage for SikaControl®-739 to meet a specific requirement should always be determined by trial mixes. Please contact Sika Technical Department for further assistance. Recommended dosage rate is 1.5 to 2.5 litres per m3 of concrete, depending on specification requirements.
<b>Compatibility</b>	SikaControl®-739 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 products.

## 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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### 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.

## LOCAL RESTRICTIONS

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

## 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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