

PRODUCT DATA SHEET

SikaControl®-760

(formerly MasterPel® 760)

Low Dosage, Crystalline Waterproofing admixture for concrete & mortars

DESCRIPTION

SikaControl®-760 is a crystalline powder admixture for concrete to achieve high resistance to water ingress. It is based on a blend of Portland cement, processed silica sand and special catalytic agents which converts hydration by-products to solid crystalline formation in the water transporting capillary tracts and hydration pores.

USES

SikaControl®-760 should be used in all structural concrete that is constantly or intermittently in contact with water such as sea walls, tunnels, basements, structural and precast concrete. SikaControl®-760 can also be used as crystalline waterproofing admixture for cement mortars and plasters.

To waterproof structures such as:

- Water tanks, Reservoirs
- Building Basements & foundations

- Swimming pools and water parks
- Sewage and Water treatment plants
- Dams, canals, Tunnels, Harbours
- Retaining walls & sea defence walls
- Concrete pipes

CHARACTERISTICS / ADVANTAGES

- Increased durability.
- Reduced sulphate attack.
- Reduced efflorescence.
- Improved cohesion, reduce segregation.
- Pumpability of concrete is greatly improved.
- Improved surface finish.
- Reduced shrinkage cracks in plasters
- Do not reduce compressive strengths
- Liquid – easy to use.
- Low dosage – Economical.

APPROVALS / STANDARDS

- IS:2645-2003

PRODUCT INFORMATION

Packaging	SikaControl®-760 is available in 5 Kg & 25 kg pack.
Appearance / Colour	Free Flowing grey powder
Shelf Life	6 months from date of production if stored in unopened, undamaged and original sealed packaging.
Storage Conditions	SikaControl®-760 must be stored where temperatures do not drop below +5°C. Temperature should be between 5 °C and 35 °C. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Bulk Density	1.350 ± 0.02 gm/cm ³
Total Chloride Ion Content	< 0.2%

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APPLICATION INFORMATION

Recommended Dosage

As a guide, a dosage of 1000 grams per 100kg of cement content is recommended. Dosage up to 2000 grams per 100 kg of cement content can be used in special requirements. For addition to ready mix concrete, a dosage of 5 Kg per cubic meter is best recommended.

For addition information on SikaControl®-760 or on its use in developing concrete mixes with special performance characteristics, contact your local representative.

Points to remember when producing waterproof concrete

- Ensure water / cement ratio is less than 0.5
- Addition of good plasticiser from the Sikament® RB or Sika® ViscoCrete® range is advised to achieve mini-mum water/cement ratio.
- Place concrete quickly and compact it well.
- Ensure complete curing with a curing compound.

Compatibility

SikaControl®-760 is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set- control admixtures, corrosion inhibitors, and shrinkage reducers.

SikaControl®-760 is also compatible with slag and pozzolans such as fly ash and silica fume.

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.

FURTHER DOCUMENTS

CORROSIVITY- NON CHLORIDE, NON CORROSIVE

SikaControl®-760 will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or concrete placed on galvanized steel floor and roof systems. Neither calcium chloride nor any calcium chloride-based ingredients are used in the manufacture of SikaControl®-760. In all concrete application, SikaControl®-760 will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.

WORKABILITY

SikaControl®-760 has little or no effect on workability of concrete. Prior site trials are advised to assess the effect, and any increase or decrease in the workability can be adjusted by adjusting the admixture dosage or amount of water in use.

It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

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

SikaControl®-760 is a ready-to-use powder which is dispensed into the concrete together with the cement. Following sequence of mixing shall enable best performing waterproofing mix:

- Batch course aggregates
- Batch fine aggregates
- Batch cement & mineral admixtures
- Sprinkle SikaControl®-760
- Dry mix for 1 to 2 minutes to achieve even dry mixture
- Add gauging water admixed with plasticiser (if required) and continue mixing to even consistency of the mix.

In case of addition at the batching plant, use a 5 Kg dosage per cubic meter and add separately after introducing all other mix ingredients in the mixer and ensure uniform mixing. The addition of SikaControl®-760 to gauging water is not recommended.

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 war-

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ranty 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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