Sika Control[®] -40

Shrinkage Reducing Concrete Admixture

Product Description	Sika Control [®] -40 is a shrinkage reducing admixture to minimize drying shrinkage The product meets the requirements for a concrete admixture according to SIA 162 without unwanted side effects to the concrete quality.
Uses	Sika Control [®] -40 is especially suitable for the production of high performance concrete with greatly reduced drying shrinkage behaviour.
	Thus, the durability of the structure is substantially extended. Sika Control [®] -40 is used for all structures where the requirements for the limitation of crack widths according to SIA 162 333 are specified.
Advantages	Sika Control [®] -40 improves cohesion in the pore space. Contraction and therefore length change due to water loss is thus substantially reduced.
	The following advantages may be obtained when using Sika Control $^{\scriptscriptstyle m B}$ -40:
	Greatly reduces drying shrinkage (reduction of approx. 40%. strongly depending on mix design).
	Unchanged fresh and hardened concrete properties.
	Can be combined with air entraining agent for the production of frost and deicing salt resistant concrete.
	Substantially improved impermeability.
	Sika Control [®] -40 does not contain chlorides or other steel corrosion promoting constituents. It may therefore be used with confidence for reinforced and prestressed concrete structures.
Technical Data	
Base	Hydroxy combinations
Appearance / Colour	Brownish liquid
Density	1.0 kg/l (ASTM C-494)
pH-Value	10.5 ± 0.5
Packaging	180 kg drums
	Bulk Tanks packing available upon request
Storage Conditions / Shelf life	12 months from date of production, if stored properly in unopened and undamaged original sealed packaging, at temperatures between +5°C and + 35°C. Protected from direct sunlight and frost.
Application	
Dosage	Recommended dosage 0.5 - 2.0 % by weight of cement
Addition	Sika Control [®] -40 is added to the gauging water or poured into the concrete mixe
Addition	simultaneously with it.



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Concrete Placing	With the use of Sika Control [®] -40 concrete of highest quality is being produced.
	The standard rules of good concreting practice, concerning production as well as placing, are to be followed.
	Fresh concrete must be cured properly.
Comptability	Sika Control [®] -40 may be usefully combined with the following Sika products:
	Sikament / ViscoCrete
	SikaFume / SikaCrete
	■ Sika Aer
	Sika Retarder and Sika Retardol -25
	Pre-trials are recommended if combinations with the above products are being made. In combination with retarding admixtures greatly extended retardation time must be anticipated.
Important Notes	Frost and Deicing Salt Resistance:
	To Produce a high frost and deicing salt resistance according to SN 6450461 (BEI or BEII) standard, the air pore content in fresh concrete 0 - 32 mm should be 5 %. These air pores are normally introduced with Fro-V2-A.
	Retardation:
	Especially at low temperatures the use of Sika Control [®] -40 causes retardation Depending on mix design one has to anticipate delayed demoulding. For high early strengths within 1-3 days Sikament HE-200 (accelerating superplasticizer) should be used.
	Frozen Sika Control [®] - 40:
	Frozen Sika Control [®] -40 may be used after it has been slowly thawed at room temperature and thoroughly mixed.
Safety Instructions	
Safety Precautions	Accidental splashes to the skin must be washed off with water and soap.
-	Accidental splashes to the eyes or mucous membrane must be rinsed with clear warm water. Seek medical attention without delay.
Ecology	Residues of material must be removed according to local regulations.
	Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
Transport	Non-hazardous
Toxicity	Non-Toxic under relevant health and safety codes.
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



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Sika Egypt for Construction Chemicals El Abour City 1st industrial zone (A) Section # 10 Block 13035, Egypt

Tel :+202- 44810580 - 90 Fax :+202- 44810459 Mob :+20122- 3908855 www.sika.com.eg

