

BUILDING TRUST

PRODUCT DATA SHEET Sika[®] Stabilizer-110 AE

(formerly MasterMatrix[®] 110AE)

High-performance viscosity modifying agent (VMA)

DESCRIPTION

Sika[®] Stabilizer-110 AE is a ready to use liquid based viscosity modifying admixture. Sika[®] Stabilizer-110 AE improves stability and segregation resistance of concrete mixes resulting in improved surface quality and aesthetics. Sika[®] Stabilizer-110 AE is suitable for various types of concrete. Sika[®] Stabilizer-110 AE has been found to improve plastic properties of Self Compacting Concrete (SCC) as well as high slump conventional concrete mixes and mixes containing manufactured sand and/or poorly graded aggregates. Sika[®] Stabilizer-110 AE helps stabilise the air void sys-

tem in freshly mixed and placed concrete and increases the overall concrete stability and passing ability.

Suitable for use in hot and tropical climatic conditions.

USES

Sika[®] Stabilizer-110 AE has been specially developed for Self Compacting Concrete (SCC) and can also be used for other concrete applications, where improved stability during transportation and placing is required. Sika[®] Stabilizer-110 AE improves the fresh concrete properties of mixes with varying fines content, low cement content or concrete mixes with unfavourable grading curves.

FEATURES

Sika[®] Stabilizer-110 AE provides the following characteristics and advantages in the fresh concrete properties:

- Strongly increased internal cohesion of the mix
- Lower sensitivity against variations in the constituent materials and gap graded aggregates
- Homogeneous mix
- Less bleeding
- Improves stability during transportation
- Faster concrete consolidation
- Reduced tendency to segregation

Sika[®] Stabilizer-110 AE assists the concrete placing in the following ways:

- Reduction of compaction defects
- Smoother concrete surfaces
- Improved pumpability
- Equipment is preserved and its service life is prolonged

Sika[®] Stabilizer-110 AE does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

Packaging	210 L drums	
Shelf life	12 months from date of production if stored properly	
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry condition at temperatures between +5°C and +50°C. Mix well before using.	
Appearance and colour	Brown liquid	

PRODUCT INFORMATION

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~1.01 kg/l (+25°C)	
Nil	(EN 934-2)
must be observed when using Sika® Stabilizer-110 AE in relevant standards. Fresh concrete must be cured properly especially at hig	concrete. Refer to h temperatures in
DN	
recommended between 0.1 - 0.5 % by weight of fines. C	Other dosages can
Sika [®] Stabilizer-110 AE is a ready-to-use liquid admixture, which should be added to the concrete during the mixing process together with the water. This is particularly important in order to obtain maximum efficiency. For best performance it is advisable to continue mixing until the mix is com- pletely homogeneous.	
 and supplementary cementitious materials such as: Mic Fume), Fly Ash (PFA), GGBS (Ground Granulated Blast Fi the following Sika products: Sika® ViscoCrete® SikaPlast® SikaPlast® SikaPump® Sika® FerroGard® SikaFume® SikaFiber® Sika® Aer Sika® Stabilizer SikaControl® We recommend that trial mixes be performed to estable 	rosilica (Silica urnace Slag) and ish the required ith the above
	Nil The standard rules of good concreting practice for prod must be observed when using Sika® Stabilizer-110 AE in relevant standards. Fresh concrete must be cured properly especially at hig order to prevent plastic and drying shrinkage. Use Sika® as a curing agent or apply wet hessian. DN Sika® Stabilizer-110 AE is batched on the total of fines b recommended between 0.1 - 0.5 % by weight of fines. O be used depending on the mix design, raw materials, cli and concrete requirements. Please consult our Sika Technical Department. Sika® Stabilizer-110 AE is a ready-to-use liquid admixtur added to the concrete during the mixing process togeth This is particularly important in order to obtain maximu best performance it is advisable to continue mixing unti pletely homogeneous. Sika® Stabilizer-110 AE is suitable for mixes containing a and supplementary cementitious materials such as: Mic Fume), Fly Ash (PFA), GGBS (Ground Granulated Blast Fo the following Sika products: Sika® FerroGard® Sika® FerroGard® Sika® Kabilizer Sika® Ker Sika® Stabilizer Sika® Stabilizer Sika@ Aer Sika@ Stabilizer Sika@ Stabilizer Sika@ Stabilizer Sika@ Aer Sika@ Control® We recommend that trial mixes be performed to establ performance when combining Sika® Stabilizer-110 AE w

BASIS OF PRODUCT DATA

- All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
- Internal Reference Version: MBS_CC-UAE/ M_Matrix_110AE_06_17/v1/

FURTHER INFORMATION

For Light Weight Concrete, the recommended application of Sika® Stabilizer-110 AE to reduce air loss during pumping is:

Density	Dosage
≤ 1000 kg/m³	2-3 L
> 1000 kg/m³	1-2 L

IMPORTANT CONSIDERATIONS

- When using Sika[®] Stabilizer-110 AE a mix design must be selected for the local material sources used and trial mixes performed to verify suitability.
- Sika[®] Stabilizer-110 AE should not be added to dry cement.
- The rheological behaviour induced by Sika[®] Stabilizer-110 AE is optimised when used in combination with Sika[®] ViscoCrete[®] superplasticizer. It is incompatible for use with naphthalene sulphonate based superplasticizers.

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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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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All products are supplied under a management system certified still: drike quality, write and the quality and the and transformed to the requirements and transformed to the quality and the state of the quality and the system and the quality and the system an

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