

PRODUCT DATA SHEET

Sika® Stabilizer UW 480

(formerly MasterMatrix® UW 480)

Anti-washout admixture

DESCRIPTION

Sika® Stabilizer UW 480 is a ready to use, powder admixture specially developed for concrete placed under water. Concrete treated with Sika® Stabilizer UW 480 admixture exhibits superior resistance to washout of cement and fines.

USES

Sika® Stabilizer UW 480 is recommended for use in all types of concrete pumps under water, where thixotropic action is desirable. Sika® Stabilizer UW 480 admixture is especially helpful in extreme conditions where conventional concrete or placing techniques would result in a high percentage of material loss due to washout. Sika® Stabilizer UW 480 admixture is particularly useful in mortar or grouting applications where mixtures are typically more fluid and have a higher potential for washout.

CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer UW 480 admixture produces a concrete mixture highly resistant to washout, while maintaining workability, pump ability and place ability.

- The following special qualities are also provided:
- Reduce or eliminate concrete bleeding.
- Slump characteristics equal to untreated concrete.
- Virtually eliminates segregation, even with highly fluid, high water-cementitious ratio mixes.
- Reduce / eliminate costly methods of dewatering.
- Thixotropic action provides stiffening after concrete is placed.
- Minimized environmental impact of cement washout in water.
- Minimal to no effect on set time.

PRODUCT INFORMATION

Composition	Powder synthetic copolymers
Packaging	25 kg bag
Shelf Life	12 months from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage Conditions	Store in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.

TECHNICAL INFORMATION

Concreting Guidance	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.
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APPLICATION INFORMATION

Recommended Dosage	0.3–1.0 % by weight of cementitious
Compatibility	Sika® Stabilizer UW 480 may be combined with the following products: <ul style="list-style-type: none">▪ Sika® Plastiment®▪ Sika® Viscocrete®▪ Sika Viscoflow®▪ SikaFume®▪ SikaFibre® To produce flowing and / or self-compacting concrete, special concrete mix design is required. Pre-trials are recommended and mandatory if combinations with the above products are required. Please consult to our Technical Service Department.

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

APPLICATION

Washout as determined by the US Army Corps of Engineers CRD-C61, "Test Method for Determining the Resistance of Freshly Mixed Concrete to Washing Out in Water", reports the performance of Sika® Stabilizer UW 480 admixture treated concrete compared to untreated concrete.

For under water concrete ACI340R, Chapter 8, "Concrete placed under water" recommends certain basic mixture proportions such as 355 kg/m³ or more total cementitious with 15 % pozzolanic material, a maximum water/cementitious ratio of 0.45, fine aggregate content of 45 % to 55 % by volume of total aggregate and air contents of up to 5 %. A slump of 15 cm to 23 cm is generally necessary and occasionally a slightly higher slump is needed. Sika® Stabilizer UW 480 admixture should be used with a water reducing admixture from Sika.

For high slump concrete use Sika® Stabilizer UW 480 with admixture such as Sika® Viscocrete® or Sika Viscoflow® series. This combination will produce a high performance self-compacting concrete that exhibits superior resistance to washout of cement and fines. Because of variations in job conditions, applications and concrete materials dosage rates outside the recommended range may be required. For additional information on Sika® Stabilizer UW 480 admixture or on its use in developing a concrete mixture with special performance characteristics.

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.

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