

PRODUCT DATA SHEET

ADTHIX

Thixotropic agent

PRODUCT DESCRIPTION

ADTHIX is a ready-to-use, diutan gum-based admixture, formulated specifically to modify the viscosity of hydraulic cement-based materials without affecting other characteristics.

WHERE TO USE

- For increasing the viscosity of a grout, over time, to prevent the loss of material in fractured soil

CHARACTERISTICS / ADVANTAGES

- The addition of ADTHIX to MS Cable enhances the thixotropic properties of the grout.

PRODUCT INFORMATION

Packaging	25 kg (55 lb) bag
Shelf Life	12 months in original, unopened packaging
Storage Conditions	Store dry, ensuring that product is not exposed to rain, condensation or high humidity.
Flowability	To evaluate the plastic behavior of MS Cable, infused with the addition of ADTHIX, the thixotropic grout flow is measured using the mini-cone [ASTM C 1437 (Modified)]. The flow results are shown in Table 1.

Table 1

Flow measurements according to ASTM C 1437 (Modified). MS Cable with the addition of ADTHIX at room temperature [21 °C (70 °F) in a laboratory].

	100 g (0.22 lb) of ADTHIX per 25 KG (55 lb) of MS Cable	500 g (1.1 lb) of ADTHIX per 25 KG (55 lb) of MS Cable
Grout temperature at plastic state T = 0 s.	28 °C (82 °F)	28 °C (82 °F)
T = 0 s. (4 minutes after initial mix)	180 mm (7.1 in)	115 mm (4.5 in)
T = 10 min. rest after mix	130 mm (5.1 in)	105 mm (4.1 in)
T = 10 min. rest + 30 s. remix	155 mm (6.1 in)	110 mm (4.3 in)

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & 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

MIXING

Note: The ambient temperature and those of the components can influence the plastic properties of the product. Mixing equipment and the type of pump used for placement can also influence these properties.

Table 2

Mixing procedure of MS Cable, 25 KG (55 lb) with ADTHIX

Step	Component to introduce	Action / Activity	Mixer Speed
1	8.3 L (2.2 US) gallons of water	Add 100% of the water into the high shear mixer	Medium
2	25 KG (55 lb) of MS Cable	Gradually empty the dry contents of a 25 KG (55 lb) bag of MS Cable into the high shear mixer	Medium
3	100 g (0.22 lb)	Gradually empty the contents of a sachet of ADTHIX into the high shear mixer	High
4	-	Mix at high speed for 3 to 5 minutes	High

Note: Recirculate the grout in the mixer when the product is not being pumped.

APPLICATION METHOD / TOOLS

is recommended to start with one 100 g (0.22 lb) of ADTHIX per 25 KG (55 lb) bag of MS Cable, and gradually increase the amount of ADTHIX, as needed, without exceeding a dosage of 500 g (1.1 lb) of ADTHIX per 25 KG (55 lb) of MS Cable.

It is recommended to recirculate the grout in the mixer or to keep the grout in an agitator when not being pumped in-place, due to the thixotropic properties of MS Cable with ADTHIX. The proposed mixing procedure is shown in Table 2.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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