

PRODUCT DATA SHEET

SikaPlast[®]-5500 MY

High performance, high early strength superplasticiser

DESCRIPTION

SikaPlast[®]-5500 MY is a third generation mid-high range water reducing / super plasticising admixture for concrete.

It is chloride free for easy use in reinforced and prestressed concrete structures.

Previously known as Sika[®] ViscoCrete[®]-3500 MY.

USES

SikaPlast[®]-5500 MY is a multipurpose superplasticiser that is suitable for fast production and casting of precast concrete. It provides high water reduction and high early strength for efficient casting productivity. Its combination of high workability and early strength development is suitable for the following:

- A wide range of precast elements like U-drain, box culverts, square piles, staircase, etc
- Early strength for early demolding/lifting, improved casting efficiency
- Cost optimisation - cement reduction / replacement, higher strength development
- Suitable for use with PFA or GGBS (impact on early strength to be considered for precast applications)

CHARACTERISTICS / ADVANTAGES

SikaPlast[®]-5500 MY is a powerful superplasticiser based on the latest technology for the following advantages:

- Medium - high water reduction (15–25 %)
- Early strength for 12–16 hours demolding / lifting
- Workability retention up to 45–60 minutes
- Excellent plasticising effect for higher workability, easy casting and compaction
- Improved durability - higher density, reduced shrinkage, lower permeability

PRODUCT INFORMATION

Packaging	1000 L IBC
Shelf Life	12 months from date of production
Storage Conditions	Store properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost.

APPLICATION INFORMATION

Recommended Dosage	Medium workability	0.5–1.0 % by weight of cement
	High workability	0.8–1.3 % by weight of cement
Compatibility	SikaPlast®-5500 MY may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.	

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

DISPENSING

SikaPlast®-5500 MY is added to the gauging water or added with it into the concrete mixer.

To take advantage of the high water reduction, a wet mixing time of at least 60 seconds is recommended. The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before actual 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.

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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