

## PRODUCT DATA SHEET

# Sika® Plastocrete®-3701 3D

(formerly MFlow 3D 240)

A high-performance hybrid polymer for enhancing dispersion and workability retention of Sikacrete®-3701 3D

### DESCRIPTION

Sika® Plastocrete®-3701 3D has been developed specifically as an admixture for the Sikacrete®-3701 3D for 3D printing applications. Suitable for use in hot and tropical climatic conditions.

### USES

The dispersion properties of Sika® Plastocrete®-3701 3D makes it the ideal admixture to be used with the Sikacrete®-3701 3D for 3D Printing applications.

### FEATURES

Sika® Plastocrete®-3701 3D allows the following:

- Production of high early and high ultimate strength elements with minimal voids and therefore optimum density
- Adjustable workability without segregation or bleeding based on the printing requirements
- Homogeneous mix and dispersion of the Sikacrete®-3701 3D
- Improved surface finish
- 40-60 minutes open time even at high ambient temperatures

### CERTIFICATES AND TEST REPORTS

Sika® Plastocrete®-3701 3D follows the requirements of ASTM C494; Type G and EN 934-2

### PRODUCT INFORMATION

<b>Composition</b>	Aqueous solution of modified polycarboxylates, co-polymers
<b>Packaging</b>	25 L pails, 200 L drums upon request
<b>Shelf life</b>	12 months from date of production if stored properly
<b>Storage conditions</b>	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +50°C. Mix well before using.
<b>Appearance and colour</b>	Clear liquid
<b>Density</b>	~1.2 kg/l (+25°C)
<b>Total chloride ion content</b>	Nil (EN 934-2)

# APPLICATION INFORMATION

<b>Recommended dosage</b>	0.06 – 0.1 L / 25 kg of Sikacrete®-3701 3D. Dosages outside this range are permissible subject to trial mixes.
<b>Dispensing</b>	Sika® Plastocrete®-3701 3D is a ready to use admixture that is added to the mixing water for the Sikacrete®-3701 3D at the time of batching. Sika® Plastocrete®-3701 3D must not be added to the dry materials. Thorough mixing is essential after the addition of the Sika® Plastocrete®-3701 3D. Mixing time will vary depending on batch size and mixer type until a homogenous consistency is achieved.
<b>Compatibility</b>	Sika® Plastocrete®-3701 3D is not compatible with other superplasticizers and should be used only with Sikacrete®-3701 3D.

## 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.

## FURTHER DOCUMENTATION

Effects on hardened element printed using Sika® Plastocrete®-3701 3D:

- Increased early and ultimate compressive strengths
- Increased flexural strength
- Better resistance to carbonation
- Lower permeability
- Better resistance to aggressive atmospheric conditions
- Reduced shrinkage and creep
- Increased durability

## 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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ISO 9001, 14001, 45001 – SGS  
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-Sika International Chemicals LLC  
-Sika Gulf B.S.C. (c)  
ISO 9001, 14001 – SGS  
-Sika Saudi Arabia Limited  
ISO 9001, 14001 – TÜV  
-Sika MB Construction Chemicals LLC  
-Sika Construction Chemicals for Manufacturing LLC  
-Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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