BUILDING TRUST

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 in 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

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

APPLICATION INFORMATION

Recommended dosage	0.06 – 0.1 L / 25 kg of Sikacrete®-3701 3D. Dosages outside this range are permissible subject to trial mixes.
Dispensing	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.
Compatibility	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

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ISO 9001, 14001, 45001 – SGS:
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ISO 9001, 14001 – TÜV:
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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.