

PRODUCT DATA SHEET

SikaPaver[®]-746

(formerly MCast 746)

New generation plasticizer for Manufactured Concrete Products

DESCRIPTION

SikaPaver[®]-746 is an innovative multipurpose plasticizer specially developed for manufactured concrete products. The product is suitable for the production of blocks and pavers. At the same time, SikaPaver[®]-746 accelerates the strength development and reduces the cycle time whilst the appearance is maintained or even improved.

Due to its unique principle of action on the cement grain, SikaPaver[®]-746 fully exploits the hydration potential of cement resulting in higher early strengths and shorter curing times.

Suitable for use in hot and tropical climatic conditions.

USES

SikaPaver[®]-746 is suitable for manufacturing concrete products, especially:

- Pavers
- Blocks

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice for production and placing must be observed when using SikaPaver[®]-746 in concrete. Refer to relevant standards.

Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika[®] Antisol[®] products as a curing agent or apply wet hessian.

FEATURES

SikaPaver[®]-746 offers the following benefits for the manufactured concrete product industry to:

- Enhanced productivity due to shorter cycle time.
- Higher early strength.
- Enhanced curing cycles due to shorter curing times.

CERTIFICATES AND TEST REPORTS

SikaPaver[®]-746 follows the requirements of EN 934-2

PRODUCT INFORMATION

Packaging	Drums, 1000 L flowbins or bulk supply in tanker
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	Brownish liquid
Density	~1.18 kg/l (+25°C)
Total chloride ion content	Nil (EN 934-2)

APPLICATION INFORMATION

Recommended dosage	0.3 - 0.8 % by weight of binder. Other dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required. Please consult our Technical Services Department.
Dispensing	SikaPaver®-746 is a liquid ready-to-use admixture to be added to the concrete during the mixing process. The best results are obtained when the admixture is added after all the other components are already in the mixer and after the addition of at least 80% of the total water. The water content is adjusted to obtain the desired consistency or workability.
Compatibility	SikaPaver®-746 is suitable for mixes containing all types of cement and supplementary cementitious materials such as Microsilica (Silica Fume), Fly Ash (PFA), GGBS (Ground Granulated Blast Furnace Slag) and the following Sika products: SikaPlast®, Sika® ViscoCrete®, Sikament®, SikaPump®, Sika® FerroGard®, SikaFume®, SikaFiber®, Sika® Aer, Sika® Stabilizer, SikaControl® We recommend to perform trial mixes to establish the required performance when combining SikaPaver®-746 with the above products or other admixtures. Please consult our Sika Technical Department.

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.

IMPORTANT CONSIDERATIONS

- Before pouring, suitability tests on the fresh concrete must be carried out.
- When using SikaPaver®-746 a suitable concrete mix must be designed for the local material sources and trial mixes performed to verify suitability.
- If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing.
- When accidental overdosing occurs, the set retarding increases.

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 Saudi Arabia Limited
- Sika Kuwait Cons. Mat. & Paints Co WLL
- 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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