

## PRODUCT DATA SHEET

## SikaPaver®-521 AE

New generation polycarboxylate ether-based plasticizer for Manufactured Concrete Products, specially engineered for block and paver mixes

## DESCRIPTION

SikaPaver®-521 AE is an innovative multi-purpose plasticizer based polycarboxylic ether polymers specially developed for semi-dry concrete mixes. The product is suitable for the production of hollow-core slabs, masonry and paving blocks.

At the same time, SikaPaver®-521 AE 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®-521 AE 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®-521 AE is suitable for Manufacturing Concrete Products, especially:

- Concrete Pavers
- Masonry Blocks
- Roof tiles
- Kerbstones
- Landscaping elements

## FEATURES

SikaPaver®-521 AE offers the following benefits for the MCP industry to:

- Optimised mix design
- Enhanced productivity due to shorter cycle time
- Higher early strength
- Optimised curing cycles due to shorter curing times

## PRODUCT INFORMATION

Composition	New generation of polycarboxylic ether-based plasticizer	
Packaging	1000 L flowbin or bulk supply in tanker	
Appearance and colour	Clear to light brown liquid	
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 use.	
Density	~1.02 kg/l (+25 °C)	
Total chloride ion content	Nil	(EN 934-2)

## TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using SikaPaver®-521 AE in concrete. Refer to relevant standards.
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## APPLICATION INFORMATION

<b>Recommended dosage</b>	0.4—1.2 % by weight of binder. Dosages outside of this range 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.
<b>Compatibility</b>	SikaPaver®-521 AE may be combined with all types of Portland cement, concretes containing pozzolanic materials such as; GGBS, PFA , micro-silica and the following Sika products: <ul style="list-style-type: none"><li>▪ SikaFiber®</li><li>▪ Sika® Stabilizer</li><li>▪ SikaControl®</li></ul> We recommend to perform trial mixes to establish the required performance when combined with the above products. Please consult our Sika Technical Department.
<b>Dispensing</b>	SikaPaver®-521 AE 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 consistence or workability.

## 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 use, suitability tests must be performed. Sufficient compaction of base and face concrete is essential to ensure the targeted performance parameters of the manufactured semi-dry concrete elements. SikaPaver®-521 AE is not compatible with SikaPaver®-764 or Sikament® range superplasticizers. For further information and advice, please contact our Technical Service Department.

## 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:  
Sika MB LLC  
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  
ISO 9001 – LMS  
Sika MB 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.



### Product Data Sheet

#### SikaPaver®-521 AE

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