

PRODUCT DATA SHEET

SikaPaver®-621 AE

COMPACTION AID FOR SEMI-DRY CONCRETE

DESCRIPTION

SikaPaver®-621 AE is a filling and compaction aid which has been designed to eliminate the stickiness of semi-dry concretes at elevated water-cement-ratios. The resulting granular concrete leads to an even mould filling and less quality fluctuations while ensuring the targeted concrete compaction. Suitable for use in hot and tropical climatic conditions.

USES

- Concrete Pavers
- Masonry Blocks
- Roof Tiles
- Kerbstones
- Landscaping elements
- Screed concrete

FEATURES

SikaPaver®-621 AE has been designed especially for the application in semi-dry / no-slump concrete with high moisture contents and causes:

- Better dispersion and wetting of cement, additives and pigments
- Reduced friction between cement and aggregates
- Retaining of parts of the water, which reduces the stickiness of the concrete.

This leads in fresh semi-dry concrete to the following advantages:

- Granular mould-filling properties, despite high water contents
- Even concrete distribution across the mould (horizontally and vertically)
- Stronger compactability, which allows, for example, achieving shorter cycle time or higher concrete densities
- Increased green strength (shape keeping) after immediate de-molding

In hardened concrete, SikaPaver®-621 AE hence causes:

- Higher concrete density and strength
- Smoother and more homogenous concrete surfaces and flanks
- Better durability
- Less quality variations and consequently less second grade products

PRODUCT INFORMATION

Composition	Blend of surfactants and modified polycarboxylates
Packaging	1000 L flowbin
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 to light brown liquid

Density	~1.08 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®-621 AE in concrete. Refer to relevant standards.
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APPLICATION INFORMATION

Recommended dosage	Semi-dry concrete: 0.4 - 1.5 % 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.
Dispensing	SikaPaver®-621 AE shall be introduced at the end of the mixing process to ensure its uniform distribution. The necessary mixing time after the admixture dosage depends on the individual mixer.
Compatibility	SikaPaver®-621 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"> ▪ SikaFume® ▪ SikaFiber® ▪ Sika® Stabilizer ▪ SikaControl® We recommend to perform trial mixes to establish the required performance when combined with the above products. 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 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. For further information and advice, please contact our Technical Service Department.
Don't use SikaPaver®-621 AE in wet cast concrete.

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 MB Construction Chemicals 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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March 2024, Version 02.01
021404061000000186