

PRODUCT DATA SHEET

SikaPaver® EC-1

High performance compaction aid for semi-dry / extruded concrete products

DESCRIPTION

SikaPaver® EC-1 is a high performance compaction aid for semi-dry/no-slump extruded concrete based on the Sika® ViscoCrete® technology. This innovative admixture technology has been specifically developed for use in low cement content semi-dry/no-slump extruded concrete mixes where good surface/flanks finish and high early strength are required.

USES

SikaPaver® EC-1 is used for all types of semi-dry/no-slump extruded concrete which is generally used in the manufacture of machine-made concrete products associated with instant de-moulding such as:

- Block Paving (grey / coloured)
- Paving flags
- Kerbstones
- Edgings and other items for garden and landscape design
- Building blocks and bricks
- Concrete pipes and manholes
- Semi-dry hollow core slabs

CHARACTERISTICS / ADVANTAGES

SikaPaver® EC-1 offers substantial benefits to the producer of semi-dry/no-slump extruded concrete products:

- Efficient dispersion and distribution of cement, additives and pigments
- Improved mould filling
- Minimized friction between the mould and the concrete
- Reduced adhesion/stickiness between top layer concrete and pressing head/tamper
- Increased "green" strength after immediate de-moulding
- Less variation in densities and strengths across the area of the mould
- More economic concrete mix designs
- Less customer returns and second grade products

SikaPaver® EC-1 allows for the following advantages in the finished concrete products:

- Closer textured, smoother and more uniform surfaces
- Consistent product quality
- Minimized damage due to early handling
- Enhanced early and ultimate compressive and tensile strengths
- Increased freeze-thaw resistance

PRODUCT INFORMATION

Chemical Base	Aqueous polymers solution
Packaging	Drum: 200 ltr IBC: 1000 ltr
Appearance / Colour	Clear slight brown liquid
Shelf Life	12 months from date of production
Storage Conditions	Store properly in original, unopened packaging (drums, containers). Protect from frost, direct sunlight and contamination.
Density	1.03 + 0.02 kg/dm ³ (at +20°C)

TECHNICAL INFORMATION

Concrete Mixing Time

A mixing time of at least 30 seconds is essential, although the actual mixing time after adding the admixture depends on the individual circumstances and should be determined by trials.

SikaPaver® EC-1 shall be added with the mixing water or introduced at the end of the mixing process.

APPLICATION INFORMATION

Recommended Dosage

0.2% - 1.2% of cement weight

LIMITATIONS

SikaPaver® EC-1 must not be used for wet cast concrete as this could result in excessive air entrainment and subsequent loss of strength.

Before use suitability tests must be performed.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

Sika South Africa (Pty) Ltd

9 Hocking Place,
Westmead, 3608
South Africa
Phone +27 31 792 6500
www.sika.co.za



Product Data Sheet

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