

PRODUCT DATA SHEET

Sika® Plastiment® BV-40

WATER REDUCING CUM INTEGRAL WATER PROOFING CONCRETE ADMIXTURE

DESCRIPTION

Sika® Plastiment® BV-40 is a versatile and economical concrete water reducer/plasticizer & waterproofing compound.

USES

Sika® Plastiment® BV-40 is used wherever high quality structural concrete is required. Its plasticising effect is particularly useful where:

- Exposed surfaces are important
 - Maximum performance is desired
 - Placing conditions are difficult
 - Poor quality aggregates are found
 - Pre-cast elements are produced
 - Piling
- and wherever quality concrete is required

CHARACTERISTICS / ADVANTAGES

Sika® Plastiment® BV-40 provides the following beneficial properties:

- Improved workability without increased water
- Reduced water without loss of workability
- Water tight / water proof concrete
- Increased strength / durability
- Cement saving / economy
- Improved surface finish
- Unaffected setting times
- Reduced shrinkage and creep

APPROVALS / STANDARDS

IS : 9103, IS 2645, ASTM C 494/C 494 M-99a

PRODUCT INFORMATION

Chemical Base	Modified lignosulfonates
Packaging	275 KG HDPE Barrel
Appearance / Colour	Dark Brown liquid
Shelf Life	12 months from date of production if stored properly in undamaged, unopened, originally sealed packaging.
Storage Conditions	Storage at temperatures between +10°C and +40°C. Protect from direct sunlight, frost and contamination.
Density	~ 1.18 kg/litre (at 25°C)
pH-Value	≥ 6

APPLICATION INFORMATION

Recommended Dosage	0.2% to 0.5% by weight of cement. Actual dosage to be finalised on the basis of site trials. Stir well before use.
Compatibility	Sika® Plastiment® BV-40 may be combined with many other Sika products. Compatible with all types of cements and cementitious materials. Important: Always conduct trials before combining products in specific mixes and contact Sika Technical Service for more information and advice.

APPLICATION INSTRUCTIONS

DISPENSING

Sika® Plastiment® BV-40 can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added. The addition of Sika® Plastiment® BV-40 to dry aggregate or cement is not recommended. To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.

LIMITATIONS

Excessive water addition or overdosing may cause bleeding or segregation. Overdosing may cause extension of initial and final setting times. If frozen and / or if precipitation has occurred, Sika® Plastiment® BV-40 may be used after thawing slowly at room temperature and after intensive mixing.

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

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 Safety Data Sheet (SDS) 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.

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