

PRODUCT DATA SHEET

Sika® Plastiment® BV-40 R

WATER REDUCING CONCRETE ADMIXTURE

DESCRIPTION

Sika® Plastiment® BV-40 R is an admixture designed for use in concrete to allow increased workability and water reduction to be achieved. Sika® Plastiment® BV-40 R is a retarded setting version, and there is also a normal setting version - Sika® Plastiment® BV-40 N (refer to separate product data sheet).

USES

- Used to produce workable concrete and grout with a lower total water content and should be considered wherever high quality concrete is required.
- Ideal whenever the various handling properties of concrete must be improved and where placing conditions are difficult.
- Use with all grades of concrete.

CHARACTERISTICS / ADVANTAGES

Mixes designed incorporating Sika® Plastiment® can show economies through cement reduction, whilst still improving the plastic and hardened properties of the concrete. Using Sika® Plastiment® results in a reduction in batching water without loss of workability. Typical performance advantages are:

- Increased strength and long term durability properties
- Reduced long term shrinkage and creep
- Improved surface finish
- Placing in difficult situations is made easier
- Improved characteristics of concrete with difficult and harsh aggregate or sands

PRODUCT INFORMATION

Chemical Base	Modified ligno sulphonate
Packaging	200 litre non returnable drums or bulk deliveries
Appearance / Colour	Brown liquid
Shelf Life	Twelve (12) months from date of manufacture when stored as stated.
Storage Conditions	Store in unopened, original containers free from frost at +5°C to +35°C.
Specific Gravity	~ 1.20
Total Chloride Ion Content	<0.1%

TECHNICAL INFORMATION

Concreting Guidance	AIR ENTRAINMENT: ~ 1.0% SUITABILITY: All type of Portland cements, including sulphate resistant cement
Specific Advice	EFFECT ON SETTING TIME: Sika® Plastiment® BV-40 R can retard final set by approximately 1 hour at a dosage of 300ml /100 kg of cement at +20°C. 400 ml/100 kg of cement extends final set by approximately 1.5 hours at +20°C.

APPLICATION INFORMATION

Recommended Dosage	200ml - 500ml. Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. If assistance is required please contact Sika.
Compatibility	Compatible with other Sika admixtures, but add separately - do not pre-mix. Trials are recommended first.
Dispensing	Sika® Plastiments® are generally added to the initial batching water, prior to the addition of aggregates. For best results delay the dosage into the water until the cement and air entraining admixture have been added and initially mixed with water. Sika® Plastiments® may be added to the mixed concrete if required, however, further mixing should take place for at least one minute per cubic metre of concrete.
Restrictions	FREEZING POINT: -5°C

LIMITATIONS

- If accidental overdosing of Sika® Plastiment® BV-40 R occurs the setting times will be retarded. During this period the concrete must be kept moist to prevent premature drying out
- As with all concrete and mortars, it is essential to protect mixes containing Sika® Plastiment® BV-40 R from water evaporation during the crucial early age curing period. We recommend the use of Antisol® curing membranes for this purpose. Refer to Antisol® data sheet for further information
- To avoid moisture evaporation from the concrete surface during the finishing period Sika recommend the use of SikaFilm® (refer to SikaFilm® data sheet)
- When using Sika® Plastiment® BV-40 R actual retardation of setting times will depend on site conditions. This should be checked and predetermined with trial batch dosages

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, stor-

age 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. 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.

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