

Sika®-Bitumen AE

Bitumen Emulsion Waterproof & Protective Coating

Product Description Sika®-Bitumen AE is a brown-black bitumen liquid emulsion with excellent adhesion, which dries to a tough, seamless, waterproof and protective coating for concrete structures and steel elements.
Suitable for use in tropical and hot climatic conditions.

Uses Sika®-Bitumen AE is used for:

- Tanking and waterproofing of substructures to provide an impervious membrane in wet areas
- Damp proof membrane for roofs and floor slabs
- Basements , Retaining walls
- Landscape decks
- Curing membrane

Advantages Sika®-Bitumen AE provides:

- Excellent adhesion to moist building substrates
- Efficient curing membrane to freshly laid concrete
- Single component
- Water based , non-toxic
- Economical , easy to apply, reduces labour costs
- Can be applied on vertical and horizontal surfaces
- Impermeable to water
- Seamless, joint free
- Unaffected by high ambient temperature
- High resistance to aggressive soils and contaminated ground water
- Low odour, dries without generating strong vapours

Product Data

Form Liquid

Appearance/ Colours Dark Brown, Black when dry

Packaging 20 lt and 200 lt drums

Storage

Storage Conditions Store in original sealed containers under shade in a cool and dry environment between temperatures of +5°C and +35°C.

Shelf Life 12 months minimum from production date when stored properly in original, unopened, sealed containers.

Technical Data

Chemical Base Bitumen emulsion

Density (at 23°C) Approximately 1.00 kg/lt

Flash Point Non-flammable

Construction



Solid Content	Approximately 26 % by weight
Application Details	
Consumption / Dosage	On Concrete: Approximately 0.20 -0.35 kg/m ² per coat applied in minimum 2 coats On Steel: Approximately 0.10 -0.20 kg/m ² per coat applied in minimum 2 coats
Substrate preparation	All surfaces must be sound, even, free from dust, loose particles and any contamination. Sika®-Bitumen AE may be applied to damp but not waterlogged surfaces. Hot and very dry, porous concrete surfaces must be primed by diluting Sika®-Bitumen AE with clean water at 1:1 ratio (by weight).
Application	Sika®-Bitumen AE must be stirred well before use. Where a single drum is used for prolonged periods, occasional stirring during application is recommended. If a primer coat is applied, allow it to dry completely before applying subsequent coats. Apply evenly and in one direction using a stiff brush. A minimum two-coat application is recommended to avoid possible gaps in the film. Each coat must be allowed to dry before applying the next one at right angles to the first. In wet areas, where a key to subsequent layers (e.g. screed, tile bedding, etc) is required, blind the fresh top layer with clean sharp sand (eg. Sikadur®-507 or Sikadur®-509).
Curing Time	Touch dry: approximately 2 hours Over coating: approximately 8 hours Fully cured: approximately 72 hours
Cleaning	Clean all equipment and tools with water immediately after use.
Remarks	Do not apply Sika®-Bitumen AE to outside areas in wet weather or when rain is expected. Protect freshly applied product from rain until it is fully cured. When used as a protective coating, all pinholes, cavities, cracks etc. in the substrate must be filled in with a suitable Sika mortar.

Value Base	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 product uses.
Health and Safety Information	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.

All products are manufactured under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.



Sika Pakistan (Pvt) Limited
 141-CCA, Phase IV, DHA
 Lahore
 ﻭﺍﺳ ﺗﻪ ﻟﻪ
 Phone: +91 99 91 11 11 11
 Fax: +91 99 91 11 11 11
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