



ATLASKOTE NO 110
BITUMEN MODIFIED ELASTOMERIC
POLYMER EMULSION

PDS-BE-110
20200102
REV:006

DESCRIPTION

Atlaskote No. 110 Bitumen Modified Elastomeric Polymer Emulsion is a solvent free, water based, environmental friendly, fluid applied, dark brown in colour and dries to black, elastic but tough and durable coating. It has excellent bonding, waterproofing and crack bridging property after dry. It will not re-emulsify in water. Atlaskote No. 110 is for general application to both horizontal and vertical surface. A flowable grade Atlaskote No. 110H is also available specifically for horizontal application.

USAGE

Atlaskote No. 110 Bitumen Modified Elastomeric Polymer Emulsion is used as followed:

- * Cold applied multi layers Roof Waterproofing Membrane,
- * General waterproof and damp-proofing for concrete and masonry structures.
- * As a binder for cement, and or sand to provide strong and yet flexible joint filling and protective mastic.
- * A vapour seal in the construction of cold storage rooms and similar installations, air-conditioning plants, etc.

TECHNICAL DETAILS

Residue by Evaporation (Solid Content), % weight (ASTM D2939)
≥ 48.

Chemical and Water Resistance

Resistance to water, alcohol, most salt solutions and some dilute acids and alkalis.
Not resistance to oils, solvents and strong detergent solution.

Consistency

A thick liquid of brushing, rolling and spraying consistency.

Brookfield Viscosity, Spindle #6,

1 minute, rpm:10
>15,000cps at 25°C(For Atlaskote No 110).
>3,500cps at 25°C. (For Atlaskote No 110H).

Flexibility

Provides a firm but flexible coating within the service temperature range from 5 °C to 50 °C

Elongation at break, % (ASTM D412:1997)

> 400

Tensile Strength, MPa (ASTM D412:1997)
> 2.00

Pull-off Adhesion, N/mm² (ASTM D 4541)
14 days at 25°C,
Approximately 1

Density at 25°C, g/cc (Density cup 100cc. – ASTM D1475)
0.96 – 1.10

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This information is issued as a guide to the use of Atlaskote Product(s) concerned, and whilst every effort is made to ensure the accuracy of the text which is in accordance with the latest technical developments we cannot accept responsibility for any work carried out with our materials, as we have no control over the method of application used or conditions of the site involved. It is also not to be taken as warranty or representation for which we assume legal responsibility nor as permission or recommendation to practice any patented invention without a licence. It is offered solely for your consideration, investigation and verification.

Setting or Drying Time

Approximately 8 hours depends on the temperature/humidity conditions and porosity of the base.

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Fire Resistance

Wet : Non-inflammable.

Dry : No combustion, slight loss of charred material (SS133:1987 APP.J).

Heat Flow Resistance

The cured film will not flow or sag under direct sunlight.

Storage Life

12 months under good storage conditions and undamaged containers. This material is subject to damage by frost or heat and should be stored at temperature between 5°C and 40°C.

APPLICATION

All surface requiring waterproofing/damp-proofing/vapour seal should be structurally sound, level, smooth, clean, free from indentation, oil, grease and other contaminants that could impair adhesion.

Atlaskote No. 110 has good adhesion to most sound surfaces, including concrete, screed, asphalt brick, wood and metals. For very porous substrate, a mixture of one volume of Atlaskote No. 110 and 2 volumes of water is used to prime the surface. For outdoor concrete and other porous surfaces, Atlaskote No. 110 Primer should be used to wet the thoroughly cleaned and sound surface at a rate of approximately **0.5 lt/m²** for better penetration and sealing of voids in the substrate and to prevent formation of blisters caused by the moisture or heated air during hot weather.

Atlaskote No. 110 should be applied by roller, brush or spray at 1.2 litre/m²/coat. When dry, the film thickness is approximately 0.55mm.

Higher rate of coverage is required depending on the porosity of the substrate. Generally, a two coats application is recommended for waterproofing purposes.

Note: When the cured film is wetted by water/rain water, water spot will occur where the surface of cured film (under the water) appeared slightly 'brownish to greyish'. This physical phenomenon is due to the combine action of water, light reflection and refraction plus heat. When the water on the film' surface is evaporated under sunlight or by the action of wind and air, the 'brownish or greyish' spot will disappear and black surface reappear. This will not affect the quality of the dried film.

HANDLING PRECAUTIONS

Clean hands and tools with cold water when wet and use kerosene or solvents when dry.

PACKING

Atlaskote No. 110 Bitumen Modified Elastomeric Polymer Emulsion is available in 20-litre pail and 200-litre drum.

TECHNICAL SERVICE

Our Sales Department can assist you in the proper use of our products and you are free to consult them on any matter regarding our product.