



# ATLASKOTE NO 103 BITUMEN EMULSION

PDS-BE-103  
20191226  
REV:004

## DESCRIPTION

**Atlaskote No. 103** is a water-based and stable bitumen emulsion. It is dark brown in colour and dries to a black flexible coating. When dry, it is waterproof and will not re-emulsify in water, and it is odourless and taint free.

## USAGE

**Atlaskote No. 103 Bitumen Emulsion** is used as followed:

- \* Diluted with water as a primer for other bituminous application.
- \* Indoor floor, wall damp proofing and general waterproofing.
- \* As a binder for sand or aggregate mixes to provide flexible protective mastic on surfaces such as concrete, cement rendering, metal, wood etc.
- \* End coating of logs and sawn timber to prevent end splitting.
- \* As a vapour seal in the construction of cold storage rooms and similar installations, air-conditioning plants, etc.
- \* As an adhesive for air-condition ducting insulation material.

## TECHNICAL DETAILS

### Appearance

It is dark brown when wet and black on drying.

### 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.

**Water Vapour Permeability, ASTM D1653, wet cup method at 23°C & 50% R.H., g/m<sup>2</sup>/24h**  
Approximately 0.4

### Consistency

A non-drip thixotropic paste of brushing consistency

### Cone Penetration @ 25 °C, dmm (ASTM D217)

230-380

### Flexibility

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

### Flash Point

**NO FLASH POINT.** Atlaskote No 103 is a water-based material.

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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.

**Fire Resistance**

Wet : Non-inflammable.

Dry : will burn, but no flame spread.

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**Heat Flow Resistance**

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

**Setting or Drying Time**

Under indoor condition at room temperature of 30°C and relative humidity of 80%, a wet thickness of 0.6mm shall dry in 4 hours' time.

**Shrinkage Factor**

Approximately 45% when fully dried

**Density @ 25 °C, g/cc (Density cup 100 cc– ASTM D1475)**

0.96 – 1.03

**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 temperatures between 5°C to 40°C.

**Toxicity**

Non-toxic.

**Residue by Evaporation, % weight (ASTM D2939)**

≥53.00

**APPLICATION AND HANDLING****APPLICATION**

**Atlaskote No. 103** should be applied by brush or spray.

**Surface** preparation and cleaning shall be made on the area by removing loose and friable material, protrusions by using soft broom stick or cleaning with water to remove fine dust from the surface. Oil, grease and paints or other contaminants shall be removed by using rug cloth and paint scraper respectively.

**Application Temperature Limits, °C**

5°C to 50°C

**COVERAGE**

0.60 litre/m<sup>2</sup>/coat. Higher rate of coverage is required depending on the porosity of the substrate.

**HANDLING PRECAUTIONS**

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

**PACKING**

**Atlaskote No 103** is available in 5-litre tin, 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.