

# BITUMEN EMULSION BE3100

## SPORT COURT COATING SYSTEM

### DESCRIPTION

BITUMEN EMULSION BE3100 is a stable, water-based bitumen emulsion containing non-asbestos fibrous materials. It is dark brown in colour and dries to a black, flexible and tough coating. When dry, it will not re-emulsify in water and it is odour and taint free. Exceeds the requirements of ASTM D1227: 1995 Type III.

### TYPICAL USES

BITUMEN EMULSION BE3100 is used as followed:

- As reinforcement or protective layer for roof waterproofing, basement tanking, floor and wall damp-proofing membrane.
- Apply onto metal roofing sheet for protection against corrosion and effective reduction of raindrop sound.
- Sound deadening of sheet metal body of coaches.
- As a binder for sand or aggregate mixes to provide flexible protective mastic or pavement.

### TECHNICAL DETAILS

#### Application Temperature Limits

Not below 5°C.

#### Chemical and Water Resistance

Resistance to water, alcohol, most salts solutions and some dilute acids and alkalis.

Not resistance to oils, solvents and some detergent solution.

#### Flexibility

Provides a firm but flexible coating within the service temperature range of 5oC to 70oC depending on operating conditions.

#### Fire Resistance

Wet : Non-inflammable.

Dry : will burn, but no flame spread.

#### Heat Flow Resistance

The cured film will not flow or sag.

#### Setting or Drying Time

Under average conditions a period of 24 hours should be allowed (it may be considered dry when rubbing with a wet finger does not produce a brown stain).

#### Shrinkage Factor

Approximately 40%, wet to dry state.

#### Storage Life

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

#### Toxicity

Non-toxic

#### Physical Data

Parameter	Standards	Specifications
Form/Consistency		A thixotropic paste of brushing consistency
Solid content, %	ASTM D2939	55.0-65.0
Density, g/cm <sup>3</sup>	ASTM D1475	1.02 – 1.08
Penetration (cone), dmm	ASTM D217	280-380
Pull-off adhesion (N/mm <sup>2</sup> )	ASTM D7234	Approximately 1.2
Shore A Hardness	ASTM D2240	64.3
Accelerated weathering & UV exposure (QUV)	ASTM G154 ISO 4628	No blistering, cracking, flaking or chalking (Total exposure: 1000 hours)

## APPLICATION

BITUMEN EMULSION BE3100 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.

Apply at least 2 layers of BITUMEN EMULSION BE3100. Each coat should be applied with a coverage of 0.5 – 1.0 litre/m<sup>2</sup>/coat. A higher rate of coverage is required for more porous substrates.

Allow to completely dry for at least 24 hours and finish by applying a concrete protection screed or a coloured mastic finishing

PRODUCT DATA  
SPORTCOART COATING  
BITUMEN EMULSION BE3100

## EMERGENCY TREATMENT

Eyes: Flush immediately with water. Seek medical helps.

Skin: Remove contaminated clothing. Use appropriate skin cleaner. Wash well with soap and water.

Fire: Fight fire with foam or dry powder

Inhalation: Move into fresh air. Loosen collar and avoid excessive exertion.

Ingestion: Seek immediate medical advice. DO NOT induce Vomiting



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