

## TECHNICAL DATA FOR BS FLEXIGUM

Waterborne Rubberized Liquid Asphalt Coating

### Description of BS FLEXIGUM:

BS Flexigum is a thixotropic paste, made from a blend of bitumen, additives and special rubber particles that on curing generate excellent properties in the membrane for waterproofing on various substrates having good adhesion, elasticity and resistance to weathering.

After curing it does not dilute or disintegrate even in continuous contact with water, nor does it lose its physical properties at high temperatures of up-to >135 °C) nor does it become brittle in low temperatures down till - 20°C).

### Advantages of BS FLEXIGUM:

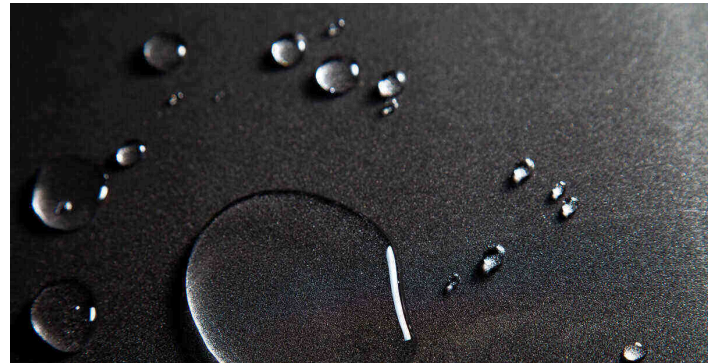
1. Forms durable Waterproof membrane and provides protection from small cracks on concrete, masonry, metallic or most building materials.
2. May be used as an adhesive for PUF insulation panels on concrete or porous surface
3. May be used for refurbishment of old APP, Bitumen Felt and SBS membranes on existing structures
4. Multiple tools can be used to apply like brush, pile roller, stiff trowel, or by spray after diluting with suitable solvent.
5. Can be left Open To Sky as UV Resistant. May also be coated directly with SRI Coating for Solar Efficiencies
6. Is a Waterborne, Eco-Friendly a Low VOC System

### Uses of BS FLEXIGUM:

1. Waterproofing of buildings which may be expecting thermal impact and vibrations on its structure.
2. Waterproofing of concrete structures including terraces, balconies, foundation and retaining walls also suitable for irregular structures or odd shapes.
3. All kinds of metallic structures needing protection against weathering, underground storage tanks, old metal GI sheet roofing etc.
4. Use for sealing joints between various materials such

as metal to metal, metal to concrete, metal to glass, concrete to concrete, etc.

5. Bond as well waterproof all types of insulating panels to all types of masonry substrates.
6. Refurbish and Reconstitute old fragile APP and SBS Membranes. It must be slightly diluted with 5% of water in order to make a new waterproofing protection with consumption of 1 -1.5 kg/m<sup>2</sup>.
7. Waterproofing of wet areas such as bathrooms, kitchen areas, podium slabs.
8. As an adhesive for Insulation Panels: - Flexigum can be applied pointing on the corners & centre of the panel with a consumption of 150 - 200 g/ m<sup>2</sup>.



BS Flexigum Waterproofing Effect



BS FlexiGum Application & Finish

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**Technical Properties of BS FLEXIGUM:**

Property	Value/Result
Type	Single component, ready to use
Components	Rubberized asphalt emulsion, synthetic rubbers, fillers
Density	1.2 ± 0.1
Viscosity	Thixotropic
Dry Content	>68%
Flammable	No
Minimum Application Temperature	+5°C
Elongation at Break	1,000% (without reinforcement) >150% (with reinforcement)
Tensile Strength	>1.5MPa (without reinforcement) >8.0MPa (with reinforcement)
Maximum Working Temperature	>135°C
Water Vapour Transmission	85,000µ
Fire Reaction	Class E
Colour	Glossy black
Shelf Life	12 months (stored indoors)
Cleanup	Water

*\*Above results are for a typical sample. We strongly advise to carry out site trials before application.*

**Application of BS FLEXIGUM:**

1. Surfaces to be treated must be made sound for proper performance or BS FlexiGum
2. Concrete surface: Grind the surface with tools like mechanised grinder, to remove soft slurry from concrete and expose the sound surface.
3. Metal surface: Rust remover should be used if rust is present after clearing the surface with a wire brush.

4. BS Flexigum is applied with a brush, mop, roller or suitable airless device. It is recommended not to apply more than 1 mm per coat in order to avoid long drying time of the product.

5. BS Flexigum is applicable on moist surfaces. In case of application on severely cracked surfaces (Damages on fibre-cement slates, cement tiles, brick tiles, joints, large cracks) it is suggested the use of a glass reinforcement between one coat and the other of BS Flexigum. This will be easily impregnated by BS Flexigum.

6. To increase the life of BS Flexium on the roof exposed to the atmosphere, it is suggested to protect the cured surface after 20 days with any solvent based PU coating or aluminum paint.

**Packaging & Shelf Life:**

BS Flexigum is supplied in 20 kg packaging. Ensure that the original, sealed packaging is used to maintain the product's quality.

BS Flexigu has a shelf life of 12 months when stored under recommended conditions. Once opened, use immediately to avoid moisture contamination.

**Storage & Handling:**

Store BS Flexigum in its original, tightly sealed container, in a cool, dry, and well-ventilated area away from direct sunlight, extreme heat, or freezing conditions.

The product is non-flammable and water-based, but basic protective gear such as gloves and goggles should be used during handling.

Clean tools and spills with water, and avoid mixing with other chemicals unless specified.

**Disclaimer:**

The information in this sheet is provided for general guidance and is based on current knowledge and experience. Due to the variety of possible application methods and site conditions, no responsibility is assumed for results obtained under specific circumstances.