

PUFFIN EPOXY ASPHALT BITUMEN

Epoxy Bitumen is a two-component thermo setting binder made by blending petroleum bitumen with epoxy resin and curing agent. It combines the adhesive and waterproofing properties of bitumen with the high mechanical strength, chemical resistance, and temperature stability of epoxy resins. It is used for high-performance pavements, bridge decks, waterproof coatings, and anti-corrosive systems.

1. Properties

COLOR	Black Brown
GLOSS LEVEL	Gloss (30-85)
FILM THICKNESS, DRY (μm)	50-150
FILM THICKNESS, WET (μm)	85-255
THEORETICAL SPREADING RATE (M ² /L)	4-12
SOLIDS (VOL %)	59% +/- 2
DENSITY (g/cm ³)	1.4
FLASH POINT	100°C ± 2%
PRACTICAL COVERAGE	ALLOW APPROPRIATE LOSS FACTORS

2. Characteristics

1) Recommended

- Bridge deck waterproofing and bonding layer
- High-performance road pavement binder
- Waterproof coating for concrete and steel
- Chemical-resistant and anti-corrosive lining

3. Surface preparation:

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

4. Substrate Minimum Recommended:

Carbon steel Sa 2½ (ISO 8501-1)

Stainless steel Sa 2½ (ISO 8501-1) Cleanliness and surface profile corresponding to Sa 2½, Fine G (ISO 8503-2)



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Aluminium the surface shall be hand or machine abraded with non-metallic abrasives or bonded fiber machine or hand abrasive pads to impart a scratch pattern to the surface and to remove all polish from the surface. Dry abrasive blast cleaning to SSPCSP 13/NACE No. 6.

Galvanized steel the surface shall be clean, dry and appear with a rough and dull profile.

Light brush blasting using nonmetallic abrasive leaving a clean, rough and even pattern

Coated surfaces Clean, dry and undamaged compatible coating (ISO12944-4 6.1) Clean, dry and undamaged compatible coating (ISO 12944-4 6.1)

Concrete: The surface should be dry, free from dust porous concrete, water and other contaminant, minimum 1-week curing. Moisture content maximum 5% with harness min 300 K.

5. Application: Airless spray, Air spray, Brush, Roller, Spray

Recommended: Pressure at nozzle (minimum): 150 bar/2100 psi

Nozzle tip (inch/1000): 17-23

Filter Check to ensure that filters are clean.

Brush Recommended: for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

6. Mixing ratio

Puffin epoxy asphalt bitumen base A: 4

Puffin epoxy asphalt bitumen base B: 1

Potlife: 2-4 hour after mixing

Thinner: Puffin Epoxy Thinner

7. Drying and Curing time:

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The shortest-time allowed before the next coat can be applied.

Surface (touch) Dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

SUBSTRATE TEMPERATURE (°C)	10	20	30
SURFACE DRY (hour)	2.5	1.5	1
DRY ON WALK (hours)	30	16	12
Dry to over coat, minimum (hours)	30	22	16



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Dry to over coat, maximum (days)	5	5	5
Dried/cured for service (days)	5	57	5

1) Product compatibility:

Depend on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product.

Some examples are shown below.

Previous:

Epoxy

Subsequent coat:

Epoxy, polyurethane

8. Precaution

1) Ensure to clean the surface before application.

2) Health and safety:

Please observe the precautionary notices displayed on the container.

Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact.

Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

3) Storage:

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care. Shelf life at 23 °C : 24 Month(s)

9. Packing size:

1kg, 5kg & 20kg Set



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