

# EUNICOTE RBE

## WATER BASED LATEX RUBBERISED BITUMEN EMULSION

### DESCRIPTION

EUNICOTE RBE is a thixotropic, cold-applied bitumen emulsion enriched with 10% rubber latex. It adheres to the highest standards outlined in various regulations and codes, including:

- Building Regulations 1976 and Amendments
- British Standard 3690:1970 "Bituminous for Road Purpose"
- British Standard Code of Practice 102:1973 "Protection of Buildings Against Water from the Ground"
- British Standard 3940:1965 "Adhesives Based Upon Bitumen or Coal Tar"
- DOE Advisory Leaflet No.23 "Damp-Proof Courses"
- Building Research Station Digest No. 54 "Damp-Proofing Solid Floors"
- DOE Advisory Leaflet No.778 "Adhesives Used in Buildings"
- Confirms to ASTM D1227, Type III, Class 1.

### USES

EUNICOTE RBE finds versatile application in construction and waterproofing, serving as an effective solution for diverse needs. Its primary uses encompass waterproofing, tanking, and damp-proofing membrane in sandwich construction applications, making it a valuable resource for creating water-resistant structures. In addition, it is a vapor barrier coating for interior and exterior floors and walls. Specifically, it proves beneficial in safeguarding retaining walls, bridge abutments, culverts, and flooring from the detrimental effects of moisture. Its effectiveness extends to providing an additional layer of protection in damp-proofing flooring, ensuring durability in various environments. Notably, EUNICOTE RBE's slightly elastic adhesion enhances its versatility, making it a reliable choice for addressing water-related challenges and contributing to the longevity and integrity of structures in tropical conditions.

### ADVANTAGES

- Serves as an effective damp-proofing membrane for both flooring and roofing structures.
- Forms a resilient and elastic impermeable coating, providing robust protection against environmental elements.
- Functions as an adhesive, bonding materials such as wood blocks, wood mosaics, insulation board, expanded polystyrene, cork tiles, and providing a key for plaster on challenging surfaces.
- Possesses sufficient elasticity to accommodate small movements, contributing to its adaptability in various construction scenarios.

- Demonstrates strong adhesion, ensuring a reliable and lasting connection to diverse surfaces.
- Easy application by brush, even in thick layers, enhancing the practicality and efficiency of the product.
- Asbestos free & odorless.
- Water based and therefore is environmentally friendly & non toxic.
- Good resistance against dilute acids and alkalis, chlorid and sulphate ions.

### TYPICAL PROPERTIES

**Appearance:** Dark brown thixotropic viscous liquid; dries black

**Specific Gravity (@20°C):**  $1.00 \pm 0.1$

**Solid Content:**  $55\% \pm 1\%$

**Rubber Content:**  $10\% \pm 1\%$

**Elongation:**  $> 550\%$

**Application Temperature:**  $5^{\circ}\text{C} - 50^{\circ}\text{C}$

**Service Temperature Range:**  $-5^{\circ}\text{C} - 80^{\circ}\text{C}$  (dry film)

**Drying Time:**

**Surface Touch Dry:** 1 - 3 hours

**Full Cure:** 12 - 24 hours

**VOC:**  $<50 \text{ g/ltr}$

### APPLICATION

**A. Application Conditions:** Apply on dry days, ideally in the morning. Avoid use during rainy or potentially rainy conditions. Ensure proper ventilation in confined spaces.

#### B. Surface Preparation

All surfaces must be sound, stable, and free from dust, dirt, and any loose matter. Any oil and grease contamination should be removed before application. EUNICOTE RBE can be applied to damp surfaces, but not waterlogged ones. In very hot, dry weather, or on hot, dry, or porous surfaces, it's recommended to dampen the surface initially with clean water to facilitate the application of the product.

Surface defects like potholes and pinholes on building facades on the concrete shall be repaired (Please contact Al-faiha's technical department for more information on how to repair surfaces).

### **C. Priming**

On new concrete surface the bitumen coating can be applied directly. However, it is highly recommended to apply a priming coat on all old and porous substrates for improving the adhesion of the subsequent coats.

The priming coat can be prepared in the work site by diluting EUNICOTE RBE with only 10% clean potable water. The priming material shall be mixed thoroughly using a low RPM paddle mixer to ensure proper homogeneity of the mix.

Primer application can be done using a brush or roller. For large areas the application can also be done using an airless spray machine. The primer should be allowed to dry before applying subsequent coats for at least 6 to 8 hours. The area should be re-primed if there is a delay in the application of the top coat for more than 24 hours.

### **D. Application Instructions**

When applying EUNICOTE RBE to concrete surfaces, it is recommended to use a minimum of two coats. This dual-layer application ensures a desired thickness ranging between 0.5 mm and 1 mm, enhancing the effectiveness and durability of the coating. Following this recommended application process contributes to the product's ability to provide robust protection and meet performance expectations in various construction scenarios.

### **E. Protection of Applied Coating**

As EUNICOTE RBE is bitumen based, it is recommended to protect the applied coating especially on foundations from damage from ongoing site activities.

### **PACKAGING**

EUNICOTE RBE is supplied in 18-Liter Pails and 200-Liter Drums.

### **COVERAGE**

The coverage of EUNICOTE RBE can be approximately 2-4 m<sup>2</sup>/L/Coat depending on the surface.

### **STORAGE**

EUNICOTE RBE should be stored and maintained at temperatures between 5°C and 30°C. Keep away from frost.

The shelf life of EUNICOTE RBE is 12 months from the date of production.

### **HEALTH AND SAFETY**

For more information, please check the Material Safety Data Sheet.

### **CONTACT**

Al-Faiha for Engineering Products is the exclusive licensee manufacturer for ECA.

For more information, please contact us at [techsupport@alfaihaengineering.com](mailto:techsupport@alfaihaengineering.com).

### **DISCLAIMER**

ECA aims to ensure the accuracy of information and recommendations in the product literature. However, due to variations in materials, substrates, and site conditions, and without control over product application, storage, weather, and usage conditions, ECA cannot be held liable for any resulting issues.