



DUCOAT 1000
EMULSIFIED BITUMEN
PROTECTIVE
COATING

DESCRIPTION

DUCOAT 1000 is thick emulsified bitumen protective coating manufactured from high quality bitumen for superior performance. The special high-quality product gives excellent adhesion to concrete and metal surfaces and forms a robust protective coating upon drying.

FEATURES AND BENEFITS

- Excellent liquid applied protective coating
- Forms a tough and resilient film upon drying
- Resistant to dilute chemicals
- Excellent adhesion to substrate
- Easy application on vertical surfaces
- Solvent free, no-fire hazard
- Water based no health hazard
- Non-flammable, non-explosive
- Excellent adhesion on damp and dry surfaces

SPECIFICATION AND COMPLIANCE

DUCOAT 1000 is tested as per the requirement of ASTM D 2939 and other relevant International Standards.

MAIN USES

DUCOAT 1000 is used as:

- Damp proofing and protective coating for a wide range of construction materials such as concrete, precast blocks, cementitious construction, wood etc.
- Protective layer for concrete foundations, vertical walls and columns as well as to prevent corrosion on pipes and other various types of surfaces.

QUALITY ASSURANCE AND WARRANTY

Duproof is an ISO 9001 Quality Assured company and DUCOAT 1000 carry a material warranty against any manufacturing defects.



DUCOAT 1000 (EMULSIFIED BITUMEN PROTECTIVE COATING)

METHOD OF APPLICATION

Substrate Preparation

1. All substrate must be clean, free from dirt, dust, soil, grease, oil and other loose particles. Substrates that are very dry should be applied with a penetrative coating of **DUPRIME E**. If the concrete is very dry dampen first with water.
2. Stir the emulsion thoroughly if stored for a long time.

Application System on Porous substrate (Concrete Structure)

1. Prime the surface with water based primer **DUPRIME E** and allow the primer to dry completely (6-8 hours).
2. Apply a minimum 2 coat by brush or spray equipment.
3. The second coat is applied when the first coat has completely dried.
4. Apply each coat at a right angle to the previous coat to achieve good coverage and uniformity.
5. A third coat is required for very porous substrate.
6. Drying time is 1-4 hours under normal conditions. Under damp and cold conditions it is recommended to allow 6 hours between successive coats.

Application System on Metal Structures

1. Clean the substrate by removing rust, scale and dirt using wire brush. Wipe off traces of oil and grease with a suitable solvent.
2. Prime the surface with water based primer **DUPRIME E** and allow the primer to dry completely (6-8 hours).
3. Apply a minimum 2 coat by brush or spray equipment.
4. The second coat is applied when the first coat has completely dried.
5. Drying time is 1-4 hours under normal conditions. Under damp and cold conditions it is recommended to allow 6 hours between successive coats.

DUCOAT 1000 is recommended to be applied at temperatures above 5°C.

PACKING AND STORAGE

DUCOAT 1000 is available in 20-liter pails and 200-liter drums, palletized and strapped. Store at temperature between 5°C and 50°C in a tightly sealed container. Shelf life is minimum of 1 year in a good storage protected from direct sunlight and frost.

HEALTH AND SAFETY

There is no health hazards associated with **DUCOAT 1000**, wash with copious amount of water if spilled on the skin.

TECHNICAL DATA

PROPERTY	UNIT	RESULT	TEST METHOD
Solid Contents	%	58 ± 5	ASTM D 2939
Density	Kg/L	0.95 – 1.00	
Appearance	-	Dark brown liquid forms into black, coating upon drying	-
Heat Resistance	-	Cured film is non-flowing and non-sagging under service conditions	ASTM D 2939
Service temperature	°C	0 °C to +50C	-
Chemical and water resistance	-	Resistant to water, salt, dilute acids and alkalis	ASTM D 2939
Flammability	-	Non-flammable	-
Coverage	Kg/m ²	0.6 to 0.9 Kg/m ² /Coat-Depending on the substrate	-
Drying time	hrs	1.0 – 4.0	-
pH	-	10 - 12	-

Tolerance based on testing standard

CLEANING OF TOOLS

The brush and spray equipment is cleaned using soap and water immediately after use. Place tools in water during breaks to prevent caking up of the bristles.

Tolerances on nominal values shown are as per UEAtc directives for polymer modified bitumen membranes. These data are correct at the time of printing but may be changed without any prior notice subject to clients requirements availability of raw materials or other conditions. This data sheet supersedes all previous publications pertaining to this product. All reasonable care has been taken in preparing this document, which to the best of our knowledge is accurate and true. Recommendations and suggestions are made in good faith and should only be considered for general guidance. No liability is assumed or taken by us in relation to the application, as usage conditions and any labour involved are beyond our control.