GSM Construction Chemicals

ETHIO Flex

Cementitious Waterproofing
Acrylic Polymer Reinforced Flexible Waterproof Coating

Technical Datasheet

Product Overview

ETHIO flex is an advanced, two-component, acrylic polymer modified cementitious waterproof coating designed for a wide range of waterproofing applications. Supplied in ready-to-mix kits, this product offers flexibility, excellent adhesion, and is suitable for both new constructions and the rehabilitation of existing structures.



Uses

- Waterproof coating for water tanks, reservoirs, and other water retaining structures.
- Flexible coating to bridge shrinkage cracks in concrete and masonry.
- Surface protection for cementitious substrates and masonry.
- Reprofiling of concrete and masonry surfaces.

Standard Compliance

- Complies with BS 6920: Part 1: 1988
- ASTM C 29
- ASTM D 638-02a

Product Description

ETHIO flex is available in Grey and White, and can be applied using a brush, roller, spray, or trowel for various textures.

Typical Properties

- Density: 1675 kg/m³
- Potability: Suitable for potable water
- Turbidity: < 1.0 NTU
- Elongation%: 85

Typical Applications & Advantages

- Suitable for waterproofing water retaining structures and roofs.
- Foundation protection and impervious lining for water containment.
- Prevents water ingress in marble and granite, reducing surface staining.
- Shields concrete from seawater and prevents chloride ion ingress & carbonation attack.
- Allows water vapor to escape, maintaining the integrity of structures.
- Non-toxic, making it safe for contact with potable water.

Technical support

GSM offers comprehensive technical support and on-site assistance for specifiers, end users, and contractors.

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Instructions for Use

Surface Preparation

Surfaces must be clean, free of dust, dirt, grease, and oil. Repair any damaged areas with suitable mortars and ensure proper curing.

Mixing

Mix Part A and Part B as directed, adding water to achieve desired consistency. Ensure correct mixing ratios for optimal results.

Application

Apply on damp surfaces to avoid dry application. Recommended coverage is 1.8 kg/ m^2. For large areas, spray application is recommended with specified equipment settings.

Coverage

Approximately 1.8 kg/m^2 at 1 mm thickness, requiring two coats for optimal performance.

Packaging & Storage

Supplied in 20 kg units (Part A & Part B) with a shelf life of 12 months when stored properly.

Health & Safety Precautions

- Non-hazardous under current regulations but avoid ingestion and contact Non-hazardous under current regulations but avoid ingestion and contact with skin and eyes. Use protective gear during application.

Important Note

Technical data is subject to change, and it is the customer's responsibility to ensure the product is suitable for the intended application.

Manufacturer
GSM Construction Chemical Materials PLC
For further information and the most current version of this data sheet, please consult GSM directly.

This technical data sheet provides a comprehensive overview of ETHIO flex waterproofing, outlining its uses, benefits, application instructions, and safety information. Ensure to check the latest version of the technical data sheet and comply with all safety guidelines during application.