



AQ-FLEX MD28

Flexible, cement based coating for waterproofing & resurfacing concrete

Technical Data Sheet

DESCRIPTION

AQ-FLEX MD28 is a cement based, two component, acrylic modified cementitious coating that requires only on site mixing to form the ideal product to waterproof and resurface concrete, masonry, and most other construction materials. The product has high flexibility and ability to fill the capillary and concreting cracks on the surface. The product has high adherence and features an excellent adhesive on concrete plaster, etc. AQ-FLEX MD28 has good resistance against weather conditions, UV rays and mechanical impacts and abrasions.

USES

- ▶ Re-facing concrete surfaces
- ▶ Positive side insulation of walls and floors on concrete, masonry and plaster applications
- ▶ Refinishing balconies, terraces, and swimming pools
- ▶ Fixing tiles in water retaining structures, wet areas, showers, baths, etc.
- ▶ Waterproof lining for water retaining structures
- ▶ Coating seawater channels
- ▶ For waterproofing & protection against brackish water
- ▶ Provides foundation protection
- ▶ Provides protection to concrete surfaces from carbonation and chloride attack
- ▶ For use on pedestrian walkways in marine areas
- ▶ Pre-cast and pre-fabricated elements and roofs

Technical Data & Physical Properties:

Composition: AQ-FLEX MD28 is composed of specially selected cements, silica sand and reactive fillers supplied in powder form, together with a liquid component of blended acrylic copolymers and special additives

Density:	1.65gr/ml
Toxicity:	Very low
Elongation at Break:	Min 50% (TS 11758-1)
pH:	7-10 (liquid component)
Initial Surface Absorption:	>95% reduction against control sample
Water Absorption:	<%2 (TS 7847)
Adhesion Strength:	Min 3kg/cm ²

FEATURES

- ▶ 1mm coating provides anti-carbonation cover equivalent to over 80 cm of concrete
- ▶ Waterproof - resists up to 7 bars (70m head) of pressure
- ▶ Excellent adhesion; bonds to porous and non-porous surfaces
- ▶ Flexible
- ▶ Non toxic-ideal for contact with potable water
- ▶ Breathable - whilst repelling water, allows substrate to breathe
- ▶ High resistance to carbon dioxide and chloride ion diffusion

Method of Use:

Surface Preparation: The surface to be coated should be fully cured and free from dust, loose particles, demoulding agents or curing agents before coating with AQ-FLEX MD28. Any damaged areas or gaps should be repaired prior to application to achieve a smooth, even surface. The product should be applied to a damp surface with no standing water. Highly porous surfaces will require more dampening than dense substrates.

Mixing: AQ-FLEX MD28 is supplied in premeasured units and should be mixed on site in clean containers. Slowly add the powder to the liquid and mix for 5 minutes using a slow speed drill fitted with a suitable paddle, to achieve a homogenous mixture. Do not mix more material than can be used in one hour.

Application: AQ-FLEX MD28 is applied in three coats with a recoating interval of 4 hours per coat. The product should be applied smoothly with a brush with each coat perpendicular to the previous one to ensure even coverage. Subsequent coats can be applied after 4 hours but not longer than 24 hours between coats. The application should not be made at high temperatures or frost, or when rain is forecast. It is recommended, for general resurfacing, that each coat should be a minimum of 1mm thick.

Coverage: 2 kg/m² (3 coats)

Packaging & Storage:

AQ-FLEX MD28 is supplied in a 35kg kit: 25kg bag of powder and 10kg container of liquid. The product should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as

per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life.

Health & Safety:

AQ-FLEX MD28 contains no hazardous substances. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the product be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each Aquaseal product.

Limited Warranty:

It is the responsibility of the customer to determine the suitability of the product for the intended purpose. Factors such as temperature, surface preparation and applicator's skill are beyond the control of the company. Therefore, the manufacturer's liability is limited to the replacement of the defective material only.

Made for and distributed in the UK by:
Abacus Construction Products Ltd
116 Chester Street
Birkenhead
Wirral
CH41 5DL
01704 831083

Sales@abacusconstructionproducts.co.uk
www.abacusconstructionproducts.co.uk



humidity, etc., along with porosity of substrate, may alter the values.

Aquaseal (Europe) Limited
London, EC4V 6BJ, U.K.
Tel: (0) 870 381 6843 / www.aquasealeurope.co.uk