

# BITUCEM - 2M

Polymer Modified Elastomeric Cementitious Waterproofing Coating

## DESCRIPTION

BITUCEM 2M is a two-component flexible waterproofing coating for application on cementitious substrates, cement boards, natural stones etc., to prevent ingress of moisture and corrosive atmospheric gases into the coated substrate. The product is supplied as a two-component material comprising of pre proportioned quantity of Powder (Part A), a mixture of cement, aggregates and special additives and a latex Polymer liquid component (Part B), which are ready to mix and use at site.

**Uses** BITUCEM 2M is suitable for application as:

Complies to BS 6920:2000 for use in Potable Water applications

- Cement based waterproofing coating for Roofs, underneath ground slabs, Wet Areas, Swimming Pools, Water Tanks, Balconies, Internal surface of basements, lift pits, sumps etc.
- Damp proof coating on brick masonry and blockwork.
- Sealing of shrinkage and dynamic cracks with limited movement arising due to thermal effects and rebar corrosion.
- Protective coating on concrete surfaces to prevent ingress of moisture and corrosive atmospheric gases.
- Waterproof sealer coat on the rear side of fully bonded or mechanically fixed natural stones.
- Waterproofing coating on cement boards.

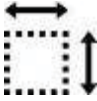


## FEATURES & BENEFITS

- Pre proportioned component for easy mixing and use at site.
- Moisture tolerant.
- Elastomeric coating capable of accommodating substrate cracking within the permissible limits.
- Non-toxic, Suitable for use in contact with potable water

## PROPERTIES

PROPERTIES	RESULTS
Form	Part A - Powder Part B - White Liquid
Colours	Grey, White
Density	1.85 kg/ltr
Pot Life @ 25°C	40 minutes
Water Penetration (DIN 1048)	5 Bar (50m water head)
Crack Bridging Ability {ASTM C1305}	Pass
Adhesion {ASTM D7234}	1 Mpa
Water vapour transmission {ASTM E96}	rate 1.4 gms/m <sup>2</sup> , 24 hours
Elongation {ASTM D 638}	70%

## ADDITIONAL INFORMATION

	<b>THEORETICAL CONSUMPTION*</b> 13.50 sqm per pack at 1mm thickness/ coat
	<b>PACK SIZES</b> 25 kg
	<b>SHELF LIFE</b> 12 months from date of manufacture if stored in shaded and dry area.

\*Coverage rate mentioned above are theoretical and may vary depending on the substrate condition.

- Can be applied in confined areas.
- Excellent bond strength to concrete, natural stones and cement boards.
- Resistant to microbial growth.
- Capable of withstanding pedestrian traffic.
- Available in white and grey colours.
- Environmentally friendly product with low voc.

## APPLICATION METHODOLOGY SURFACE PREPARATION

Proper surface preparation is essential for effective adhesion of coating to the substrate. Surfaces shall be prepared using wire brush, grinder or light blasting, depending on the extent of contamination and type of substrate, to remove loose materials, mortar splashes, oil spillage, paint etc. Hard deposits such as salt, efflorescence and sharp protrusions must be grinded off. Prepared surface must be cleaned with water jet prior to applying the BITUCEM 2M coating.

## PRIMING

Cementitious and natural stone surfaces must be pre wetted and preferably in saturated surface dry condition prior to applying BITUCEM 2M. Failure to do so may result in inadequate adhesion of coating to the substrate. Cement Particle / Gypsum board surfaces shall be primed with a diluted coat BITUCEM 2M Liquid with water (1:1) or SBR and allowed to dry prior to applying the coating.

## MIXING

Mixing must be carried out using a mechanical mixer to achieve the right mix consistency. Pour Part B (Liquid Component) into a suitable metal or plastic container of minimum 20 litres capacity and add the Part A (Powder component) slowly while keeping the mixer running. Mix continuously for 3-5 minutes until a lump free mix of homogenous consistency is obtained.

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## APPLICATION

Waterproofing Coating: Mixed BITUCEM 2M shall be applied on the prepared substrate using stiff nylon brush, roller or trowel. Spray application is possible using a pneumatic spray machine with hopper spray gun. Apply the first coat evenly at an application rate of 1.85kg/sqm and allow to become touch dry. This will take approximately 6-12 hours. The second coat must be applied in right angle to the first coat at an application rate of 0.95-1.85 kg/sqm. Ensure that the total coating thickness is 1.5-2mm in 2 coats.

## FOR SEALING SURFACE CRACKS:

Apply a 100mm band of BITUCEM 2M across the crack. A 50gsm glass fibre mesh reinforcement must be used between the first and second coat.

## PIPE PENETRATIONS, CORNERS & INTERSECTIONS:

It is preferable to use the glass fibre mesh of 50 gsm between the first and second coat to Reinforce the coating around pipe penetrations, corners and intersections between horizontal and vertical surfaces to ensure adequate application thickness.

## CURING

Applied BITUCEM 2M coating must be allowed to dry for 24 hours prior to opening for light foot traffic. Flood Test shall be carried out after 48 hours of application of coating. Application of protection screed shall be carried out after 48 hours of curing. Consult Technical Department prior to using the product beyond the purview stated in this product datasheet.

## APPLICATION RESTRICTIONS

- Avoid application during ambient temperature below 5 ° C and above 40 ° C.
- Improper pre wetting of substrate will affect adhesion and performance of cured coating.
- Application at higher thickness may result in surface cracking of the coating.
- Not to be applied on surface with standing water.
- Do not mix and reuse hardened material.

## STORAGE

- Keep the products packed in a dry place.
- Keep away from direct sunlight.

## TECHNICAL SUPPORT

International Insulation Company (IIC) - Bitugulf technical support team consist of expert engineers offers a comprehensive service support to specifiers, end users and contractors, and on-site technical assistance.

## HEALTH, SAFETY AND ENVIRONMENT

- Gloves and goggles should be worn by all workers during application.
- Do not breathe vapor from products.
- Use only in well-ventilated areas.
- Avoid contact with eyes or skin.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical help.

All safety measures should be observed during application. Fire extinguishers should be available on site. Care should be taken with gas, and torches should not be rested on finished surface or on any materials that can be scratched by flame or hot torch. Gloves and goggles should be worn by all workers during application.

Read, understand and follow all Material Safety Data Sheets and product label information for this product prior to use.

## GENERAL TERMS & CONDITIONS:

Users must always refer to the most recent data sheet. Upon request, additional copies will be provided. This technical data sheet is given in good faith and does not guarantee the optimum utility of the product always. The information contained herein is believed to be reliable to the best of our knowledge. Bitugulf is exempted from all legal liability in case of injury incurred from product handling without appropriate technical precautions. Bitugulf reserves the right to change the product specifications or properties. All orders are considered based on current delivery and sale infrastructures.



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**Note:** The technical data provided reflects typical properties based on laboratory tests and practical experience, subject to UEAtc tolerance levels. While we cannot guarantee performance under all conditions, further details are available upon request, with a standard variation of up to 20%.