

BITUCEM 2M R

Latex Modified Rigid Waterproofing Coating

DESCRIPTION

Bitucem 2m R is a two component product consisting of "Part A" a blend of liquid latex modified copolymers and "Part B" cementitious waterproofing powder. Both products part "A:" and Part "B" are mixed at the job site and applied with a brush or trowel.

USES

- As waterproofing coating for concrete slabs (floors, kitchen floors, bathrooms under tiling etc.)
- As a protection to concrete surfaces from carbonation and chloride attack.
- As protective coating for underground structural concrete.
- As backing of marble and granite to prevent surface staining.
- As general-purpose thick coating to ensure water tightness of the structure.

ADVANTAGES

- Excellent barrier to carbon dioxide, chloride and sulphate ions.
- Allows water vapour to escape from the structure.
- Waterproof-suitable for water retaining structures.
- Nontoxic - ideal for potable water tanks.
- Excellent bond to concrete and masonry.
- Good crack accommodation capacity.
- Minimum surface preparation needed and low labour costs.

PRODUCT DATA

Form	Part A – White Liquid Part B – Dry Powder
Packing	Part A – 5 Kg can Part B – 20 kg Kraft Bag
Consumption	1.8kg/m ² (for single layer in brush application)
Shelf Life	12 months when stored dry condition at moderate temperature and humidity

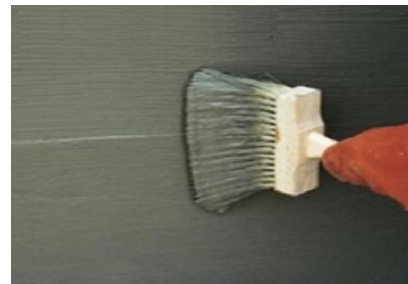
STANDARD COMPLIANCE

Bitucem 2m R complies with ASTM C 109, ASTM C 348 & ASTM C 413.



TECHNICAL DATA

Test Name	Standard	Result
Consistency (Liquid/Powder)	---	5kg/20kg
Workability @ 25°C	---	>30minutes
Mixed Density	ASTM D 138	1.800±0.10 kg/ltr
Compressive strength 1day 3days 7days 28days	ASTM C 109	3.1 Mpa 8.2 Mpa 11.3 Mpa 16.5 Mpa
Flexural Strength 7days 28days	ASTM C 348	2.7 Mpa 4.5 Mpa
Tensile Strength 7days	ASTM C 307	2.2 Mpa
Setting Time (min) Initial Setting time Final Setting time	ASTM C 308	650 min 1000 min
Hardness 28days	ASTM D 2240	65
Water Absorption	ASTM C 413	0.16%
Water Vapor Permeability	DIN 52615	1.7
Shrinkage	ASTM C 531	1.4
Bond Strength	---	1.32
Abrasion Resistance	---	350 mm ³
Chloride Content	ASTM C 1218	0.014



INSTRUCTION TO USE

SURFACE PREPARATION

All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Typically concrete surfaces can be cleaned using high pressure water jet or grit blasting or by proper wire brushing. Spalled surfaces or those containing large blow holes, cracks and other such defects should be repaired

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MIXING

Bitucem 2m R is supplied in pre-measured units and should be mixed on the site using clean plastic pails. Gradually add the dry powder (Part B) to the liquid (Part A) and mix using a slow speed electrical drill fitted with mixing paddle.

Do not mix more material than can be utilized within 1 hours' time. For small size mixes, use 4 part of powder for 1 part of liquid. Mix thoroughly and keep mixed during application.

APPLICATION

Apply properly mixed Bitucem 2m R whilst the concrete surface is damp. Use a stiff bristle brush or roller. For depressions more than 6mm make a trowellable mix using lesser quantities of liquid polymer (Part A) and apply using a trowel. Where more than one coat is necessary or specified, apply the second coat after previous coat has dried. Install in 1 or 2 coats a membrane of minimum thickness 1.5mm and do not exceed a thickness of 4mm.

If Bitucem 2m R is used in areas that will be walked on or if required to toughen the coating applied then use of fiberglass or other reinforcing fabric is recommended. This is pressed into position whilst the first coat is still tacky and then followed by a full second coat.

Note: In hot weather conditions or in order to improve brushability, up to 2% (i.e. 500ml). Water may be additionally added per pack.

Curing Period: There is no need for a curing aid, it is important that applied surface is allowed to cure on its own for at least 7 days at 30°C and above or 14 days at 20°C or below. Any testing (if required) should be carried out after the curing period.

Note: if Bitucem 2m R is used in tanking situations it is preferable to wash down the surface with water after the curing period and then put into use.

Coverage: 1.8 kg per square meter at 1 mm thickness. 1 full pack covers about 10 to 14 square meters at 1 mm thickness

STORAGE

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

PRECAUTION

Cleaning: All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage system.

Protection: All works must be protected from rain and frost unit fully hardened. It is recommended to protect with polyethylene sheeting or similar.

HEALTH, SAFETY AND ENVIRONMENT

BITUCEM 2M R is nontoxic but is mildly alkaline.

- Goggles and gloves must be worn during application.
- Use with proper ventilation.
- Avoid contact skin and eyes by careful working.
- In case of eye contact immediately wash with cold water or consult the physician.

All safety measures should be observed during application. Fire extinguishers should be available at site. Care should be taken with gas, and torch 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.

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.

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