



# VURA®

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# VURA MaStik+™

## Flexible 2K Acrylic Modified Elastomeric Cementitious Waterproofing Coating

VURA MaStik+ is an elastomeric flexible, two component acrylic modified cementitious coating applied by brush, roller or trowel to waterproof concrete, masonry and other construction materials.

### CHARACTERISTICS

- Waterproof – Suitable for internal and external waterproofing
- Flexible – Copes with the thermal movement of concrete structures
- Suitable for contact with potable water. Non Toxic
- Excellent adhesion – Bonds to porous and non-porous surfaces

### SCOPE OF USE

- Waterproofing of concrete and masonry
- Waterproofing of balcony, roofs, decks, sunken floors in bathrooms, WC etc.
- Water-retaining structures subjected to movements
- Basement-waterproofing
- To protect concrete from water, carbonation and deicing salts
- Waterproofing coating for drinking water tank, sumps etc.

### APPLICATION

#### Surface Preparation

The mineral substrate must be even, solid, load-bearing, clean, crack-free and free of substances that may impair adhesion. The surface must have a rough, open pored structure with good grip. The surface should be clean and free from dirt, oil or grease before application. Ensure that the substrate is flat, stable, well adhered, and has a normal absorption. Mechanical wire brushing may be appropriate for small areas.

Cove all corners with a hollow moulding of at least 2 cm radius. Repair any defects, screed over rock pockets and fill mortar joints, with Vura mortar products. Enlarge the cracks and fill them with polymerized cement mortar alternatively with epoxy resin. If the brickwork is uneven with numerous projections and defects, produce a levelling render made of cement mortar. **VURA Mastik+** requires pre-wetting of the substrate before application, avoiding formation of puddles.

Saturate concrete surfaces with clean water and apply whilst still damp (saturated surface dry), using a short, stiff bristle brush or roller. Trowel application can be undertaken as necessary. Where more than one coat is found necessary to achieve the desired thickness, apply the second or subsequent coats after the previous coat has dried.

#### Mixing

**VURA Mastik+** is supplied in premeasured units of 15kg powder (Part A) and 5kg liquid (Part B) and should be mixed on site utilising clean containers. Slowly add the powder to the liquid and mix, using a slow speed (300rpm) drill fitted with a suitable paddle. Mix the material which can be used in 30 minutes. Do not apply to dry concrete.

The quantity obtained must be applied within 30 minutes. The first layer will be applied consistently with a brush or trowel on prepared surface. When successive layers are applied, the next layer must only be applied when the previous layer is hardened, Interval time between two coat is approx. 4-5 hrs. Work must not be interrupted for more than 12 hours.



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Do not apply the **VURA Mastik+** to a substrate that shows the signs of standing water on the surface. Apply second coat after First coat is dry to touch, perpendicular to the direction of the first coat. The Wet film thickness per coat should be 1mm.

The freshly applied product must be protected against drying too fast.

The coating can be walked on after two days; however, even after complete hardening, the coating must not be directly exposed to heavy mechanical loads.

Keep the freshly applied coating in the normal conditions for at least 3 days. Protect **VURA Mastik+** against rain for at least 72 hours. Tiles, plasters or flooring can be applied on a layer of **VURA Mastik+** after 7 days at the earliest from drying out too quickly, frost and precipitation. Installation of covers protecting from direct sunlight, draughts, rain and frost is recommended. Do not cure the mortar by pouring or spraying water.

To improve further elongation & crack bridging ability, polypropylene fiber mesh / fabric can be used between 2 coats of **VURA MaStik+**.

## PLEASE NOTE

- Protect the waterproofing coat against damage with protective mortar. Do not cover it with gypsums materials.
- When covering the waterproofed surface with tiles, always use a tile adhesive of minimum quality C2.

## PRODUCT SAFETY

**VURA MaStik+** contains cement and produces an alkaline reaction with water. Therefore protect skin and eyes. If contact occurs, rinse thoroughly with plenty of water. In case of contact with the eyes obtain medical advice.

## GENERAL DATA

- |                             |   |                |
|-----------------------------|---|----------------|
| 1. Appearance               | : Part A: Powder  | Part B: Liquid |
| 2. Color                    | : Part A: Grey  | Part B: White  |
| 3. Mixing Ratio (By Weight) | : Part A: 3   | Part B: 1      |
| 4. Mixing Consistency       | : Homogeneous mix with fluid-brushable consistency                        |                |
| 5. Pack Size (A+B)          | : 20 Kg Combo Pack (A+B)<br>15 Kg Powder : Part A<br>5 Kg Liquid : Part B |                |

## TECHNICAL DATA

- |   |   |              |
|---|---|--------------|
| 1. Density (g/ml)                         | : Part A: 1.35  | Part B: 1.01 |
| 2. Pot Life                               | : 30 minutes  |              |
| 3. Application Temperature                | : From 5°C to 35°C  |              |
| 4. Adhesion To Concrete After 28 Days     | : > 1.50 N/mm <sup>2</sup> (ASTM D 4541)  |              |
| 5. Elongation After 28 Days               | : > 50 % (ASTM D 412)   |              |
| 6. Tensile Strength                       | : > 1.20 N/mm <sup>2</sup>  |              |
| 7. Water Absorption                       | : Negligible  |              |
| 8. Permeability to Water Vapour           | : Pass  |              |
| 9. Impermeability to Water Under Pressure | : No penetration  |              |
| 10. Crack Bridging Ability                | : up to 1 mm (ASTM C 836)   |              |
| 11. Recoat Time                           | : 4 -5 hours  |              |
| 12. Recommended Coating Thickness         | : 2mm (1mm/coat)  |              |
| 13. Consumption                           | : Approx. 1.9 kg/m <sup>2</sup> /mm thickness   |              |
| 14. Shelf Life                            | : Until 15 months since the date of Stored in undamaged dry conditions and original packaging |              |

The product is classified as per ASTM C836, ASTM D412, ASTM D4541 Standards.



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## PRECAUTIONS

When used in contact with drinking water, ensure Vura Mastik+ completely hardened respecting the suggested waiting times and Then thoroughly clean all the surfaces and remove all the water used for cleaning before tiling

## OTHER INFORMATION

Should you need support or advice, please consult our advisory service for architects and craftsman on the contact information you will find on the local VURA website.

The above information, in particular recommendations for the handling and use of our products, is based on our professional knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for the intended application method and use. Legal liability cannot be accepted on the basis of the contents of this technical data sheet or any verbal advice given unless there is evidence of willful intent or gross negligence on our part. This technical data sheet supersedes all previous editions.

Apart from the information given in this technical data sheet, it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the applicable standards.

Works should be carried out in dry conditions, with ambient and substrate temperature from +5°C to +35°C. All data refer to the temperature of +23°C and relative air humidity of 50%. In different conditions, the material parameters can alter.



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