

# RBC 703

## Elastic acrylic cement modifier



### Description

RBC 703 is two components rubberize cement mortar, it is waterproofing, excellent resistance to weathering, high elasticity, non-toxic, UV resistant, does not crack, strong adhesion and easy to apply.

### Recommended Application

Designed for use as waterproofing plaster in basement, bathrooms, kitchens, roofs, swimming pools, drains, potable water tanks, repairs concrete cracks..etc.

### **Based**

Acrylic / styrene copolymer emulsion

### APPEARANCE

#### **Color**

Milky white.

#### **Finish**

Depends on application

### APPLICATION DATA

<b>Flash Point</b>	Non-flammable
<b>Soilid Content</b>	Approx. 50%
<b>Viscosity (25°C)</b>	800-850 mPa.s
<b>Specific Gravity</b>	1
<b>Lowest Application Temperature</b>	8°C
<b>Mixing Ratio</b>	Primer RBC 703 : water = 1 : 2 (by weight) Top layer RBC 703 : cement = 1 : 1 (by weight)
<b>Drying Time</b>	Depends on application  Drying time may be varied by temperature and humidity change. The lower the temperature or the higher the humidity exists, the longer the drying time needs.
<b>Recommended Film Thickness</b>	0.7 mm (2 layers)
<b>Overcoating Time</b>	2-4 hours  Overcoating time may be varied by temperature and humidity change.

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### Coverage Rate

Coating layer	Thickness of layer	kg/ M <sup>2</sup> (Approx.)	M <sup>2</sup> / kg (Approx.)
Primer	0.04 mm	0.14 kg / M <sup>2</sup> (includes water)	7.1 M <sup>2</sup> / kg (includes water)
Top coat	0.7 mm	1 kg / M <sup>2</sup> (includes cement)	1 M <sup>2</sup> / kg (includes cement)

\*\*The above coverage refers to application on smooth surfaces and allowance should be made for irregular surfaces and wastage.

### Packaging

Unit Size
1 kg
5 kg
25 kg

### Thinner/ Cleaning

Clean water.

For primer, mix RBC703 : water =1:2 by weight. Wash gear up regularly and often using water.

### Storage and handling

It is not allowed to come into contact with any corrodible metals or alloys. Containers must be tightly closed during storage. The air inside storage tanks must be continuously saturated with water vapor. Intense heat as well as frost is to be avoided.

It is sufficiently preserved for transport. In order to protect the material against microbial attack during subsequent storage, a preservative must still be added and storage tank hygiene measures taken.

It can be stored for about 6 months if kept at 10 - 30 °C

### Application Method

For normal duty, it is required to do at least 2 layers; for heavy duty (i.e. pool, tank), it is required to do at least 4 layers.

For cementitious waterproofing coating:

Suggested formulation:

RBC 703	1 Part (by weight)
Portland cement	1 Part (by weight)

Procedure:

1. Make sure the supports must be dry or very slightly damp. It must be clean, free of loose material and any trace of fouling or oil.
2. Mix RBC 703 and water by the ratio 1:2 thoroughly, then apply as primer.
3. Mix RBC 703 : cement =1 :1 with hand mixer about 10 - 15 minutes.

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4. Apply the mixture two coats by roller, brush or scraper. Each layer cannot exceed 1 mm thick and continuous to do the second layer after 2-4 hours. If the overcoating time exceed more than 12 hours, apply some water to moisturize the surface layer before continue the work.
5. The first and the second layer should be coated in cross direction. It is help to reduce the air hole exist during the procedure. For instance, assume the first layer is coated in horizontal direction, then the second layer should be coated in vertical direction. (Refer to Figure 703(1)).
6. Finally, spray with water to the surface of final coat to keep wet about 2- 3 days.

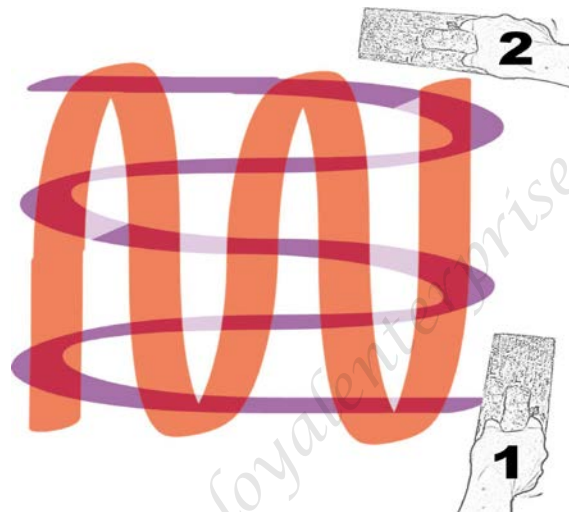


Figure 703(1)

### Technical Data

Bond strength (N/ mm <sup>2</sup> ) (ASTM D412)	1.5
Elongation at break (%) (ASTM D412)	>300%
Water permeability, 0.3MPa for 30 minutes (BS3177:1959 modification)	0 mm

### Health and Safety

Attention must be paid to the normal precautions for handling chemicals and to the measures prescribed in the local health regulations. The workplace must be well ventilated, skin care measures should be adopted and safety goggles should be worn.

*The technical information and application advice given in this publication is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to the suitability of a product for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by commonwealth or State legislation the owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.*

Version: LOY100703/101215

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