

## Elastomeric waterproofing coating for concrete structure

### PRODUCT DESCRIPTION

**RAYSTON 170 Elastic** A cement base, 2 components, polymer modified high elastic waterproofing slurry. It is applied to concrete and mortar structures to prevent water infiltration.

**RAYSTON 170 Elastic** complies with the requirements of [EN 1504-2] as protective coating.

### USES

Due to its high elasticity, **RAYSTON 170 Elastic** is applicable on different structures including those subjects to thermal movement and vibration such as:

- Waterproofing and protection of structures under hydraulic pressure, like water storage tanks, swimming pools, concrete pipes, bridge parapets, water canals, sewage treatment structures...etc.
- Waterproofing and protection of external walls to be buried below ground.
- Internal waterproofing against hydrostatic water pressure of walls and floors in basements and other below ground structures.
- Waterproofing of terraces and balconies on concrete and old tiles substrates.
- Elastic coating of precast concrete surfaces, subject to flexural loading and vibration, etc

### ADVANTGES

**RAYSTON 170 Elastic** provides the following beneficial properties:

- Easy application by metal spatula, roller or flat brush, sprayed, even onto vertical walls and ceiling.
- Capable of accommodating substrate flexural strains.
- Crack bridging capability, even on existent cracks or cracks that might open after the product application.
- Optimum adhesion onto almost all substrate, such as for instance concrete.
- Cementitious mortars, stone, ceramics, bricks and wood.
- Non-toxic.

### PRODUCT INFORMATION BEFORE APPLICATION

Form	Component (A): Powder Component (B): Liquid
Colour	Grey, White, and Custom on Request
Packaging Components	(A): Powder 22.5 kg – (B): Liquid 7.5 kg (A+B): 30 kg
Storage	Free from frost and moisture.
Shelf-life	12 months from date of production when unopen.

### TECHNICAL INFORMATION

Chemical Base	• Liquid: Styrene Acrylic • Powder: Cement, Special aggregates and Additives
Water Resistance	+ve pressure 1.5 bar -ve pressure 1.0 bar
Density Mixed	Mixed Components (A+B): 1.75 ± 0.2 kg/l
Crack bridging ability	> 1.0 mm at 23°C
Initial tensile adhesion strength	> 0.5 N/mm2 [EN 14891]
Tensile adhesion strength	> 0.9 N/mm2 after 28 days of water immersion [EN 14891]
Elongation at break	65% [ASTM D-412]
Compressive Strength	30–40 N/mm2 at 20°C after 28 days (mortar consistency) [ASTM D-695]
Flexural Strength	10–12 N/mm2 at 20°C after 28 days (mortar consistency) [EN 196-1]
Bond Strength	Approximately 1.5 N/mm2 after 28 days (sand blasted) [ASTM C-882]

### APPLICATION INFORMATION

Mixing Ratio	Slurry 1: 3 by weight Mortar 1: 4.5 by weight
Coverage	Depending on type of application, two (2) coats always required. Three (3) coats may be required in areas of extremely high infiltration. 1st coat consumption 1–1.5 kg/m2 on damp surface. 2nd coat consumption 0.8–1 kg/m2 Approximately.

### APPLICATION

#### SURFACE PREPARATION

Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. The substrate must be dry or slightly wet. All surfaces must be as true and flat as possible. Saturate absorbent surfaces thoroughly with water before application.

#### MIXING

RAYSTON 170 Elastic shall be mixed with a low speed (< 500 rpm) electric drill mixer. Pour the liquid component (B) into a suitable mixing container. While stirring slowly, add the powder component (A) to component (B). Mix thoroughly for at least 3 minutes to the required consistency

#### APPLICATION

While the surface is still damp (No standing water) apply the first coat and leave to harden 2–6 hours. For slurry consistency, apply with a hard-plastic bristled brush or broom. For trowel able mortars, use a notched trowel. After the second coat has been applied, finish by rubbing down with a soft dry sponge

## CURING

In severe heat and/or wind, protection of the RAYSTON 170 Elastic is recommended. As with all cement-based products, curing is important. Protect newly applied product against direct sunlight, wind, rain and frost.

## RECOMMENDATIONS

Minimum ambient and substrate temperature 8°C.  
Never apply more than 4 kg/m<sup>2</sup> for one layer.

## CLEANING

Do not leave material to harden before cleaning tools and equipment with water. Hardened material can only be removed mechanically.

## SAFETY PRECAUTIONS

Wear gloves and goggles. In contact with eyes or skin product, may cause irritation. TOXICITY Non-Toxic

## ADDITIONAL INFORMATION

The information contained in this TECHNICAL SHEET, as well as our advice, both written and provided verbally or through tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories, and without serving as a guarantee for the applicator, who must take them as merely indicative references and with strictly informative value. We recommend studying this information in depth before proceeding to the use and application of any of these products, although it is especially convenient that they carry out tests "in situ", to determine the suitability of a treatment in the place, with the purpose and in the specific conditions that occur in each case. Our recommendations do not exempt from the obligation that the applicator has to know in depth, the correct method of application of these systems before proceeding to their use, as well as to carry out as many previous tests as are appropriate if the suitability of these for any work, installation or repair is doubted, taking into account the specific circumstances in which the product is going to be used. The application, use and processing of our products are beyond our control and therefore under the sole responsibility of the installer. Consequently, the applicator will be solely and exclusively responsible for damages arising from the total or partial non observance of the user and installation manual and, in general, from the inappropriate use or application of these products. This data sheet overrides the previous ones.