

RAYSTON CEM IMPER FLEX

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Flexible waterproofing mortar

DESCRIPTION

Flexible 2-component mortar composition, synthetic resin based, suitable for waterproofing repairs.

APPLICATIONS

- Drinking water waterproofing repairs in drinking water facilities.
- Water retaining structures.
- Interior tunnel walls.
- Water treatment plants.

ADVANTAGES

- Flexible and water light cementitious coating. Withstands high hydrostatic pressures.
- Water vapour permeable
- Applicable onto wet supports
- Drinking water contact approved (BS 6920.2000)
- Durable
- Protects concrete against chloride and carbonates
- High chemical, abrasion and UV resistance.
- Easy application.

ADVANTAGES

CE marking, as per EN 1504-2



TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION

Colour and description Component A: milky white liquid
Component B: white/gray powder

Density Component A: 1,03 g/cm³
Component B: 1.20-1.40 g/cm³
AB mixture: 1.45-1.65 g/cm³

Water resistance 900 kPa (direct pressure)
EN 12390-8 300 kPa (indirect pressure)

Water vapour resistance 6.37 g/m² day (Class I: permeable)
EN ISO 7783-1/2

Liquid water permeability 0,01 kg/m² h
EN 1062-3

Tensile strength 1.3

Elongation at break 59%

Adhesion on concrete 2.

Abrasion resistance 0.16
Taber, 1000 cycles, CS-17, 1kg

Packaging Component A: 10 kg
Component B: 25 kg
Available colours: white and gray

Storage Keep in a cool, dry place, away from sunlight, moisture and frost.
Use before 12 months after manufacturing date.

SUPPORT REQUIREMENTS

In order to achieve a good penetration and bonding, support must be:

1. Solid, firm, rough, free of dust, loose particles, oils, organic residues or laitance
2. Fissures must have a minimum depth of 2 cm and be repaired before using Rayston Cem Imper Flex.

Before application, gently wet the support, avoiding excess of water.

MIXING

Rayston Cem Imper Flex is supplied as predosed kits of 35 kg. Pour component B in a clean bucket and add slowly the powdery component B mixing gently at low stirring speed for 3 minutes or until a homogeneous appearance is achieved. Allow standing for 5 minutes and remix briefly. The product is then ready.

Do not add water, additives, sand or cement.

Do not add water if product goes too thick for application. Remix if necessary, and, in any case, do not mix more material than the amount that is intended to be used within 20-30 minutes.

APPLICATION CONSUMPTION

Apply the product forming a continuous and uniform layer. Avoid use the product as paint. Apply two layers, 1 to 1,5 kg/m² each (total consumption 2 to 3 kg/m²). Layer thickness must be approximately, 1 mm. Once spreaded, regularize with a brush. Second layer must be applied after 12 hours and before 24 hours. Second application can be finished with a roller.

It can also be applied by spray equipment using 3-4 mm nozzles and a pressure of 3, 5 to 5 bar. Use a brush on the still fresh product to ensure a smooth surface is achieved.

If an upper layer of mortar or ceramics is intended afterwards, apply the second Rayston Cem Imper Flex layer horizontally. Inside pipes, apply layer in the direction of water flow.

Keep the applied product moist for the first 24 hours.

Estimated consumption is 1 to 1,5 kg/m² each coat. This may vary according to surface roughness.

Do not use on bitumen, water-repellent, or resin-treated surfaces.

AMBIENTAL CONDITIONS

Avoid outdoor application if rain is expected within next 24 hours.

Temperature limits are 5°C to 35°C. Do not use on frost or soaked supports.

At higher temperatures, low humidity, keep the support moist and avoid direct sunlight exposure.

CURING TIME

Rayston Cem Imper Flex can be covered with other gravel, cementitious or ceramic products after 3 days. Permanent water immersion is allowed after 14 days (at 20°C, 50% rh). Lower temperatures make these times longer.

Before return to service, clean the surface with water.

CLEANING

Rayston Cem Imper Flex can be cleaned with water when still liquid/paste. Once hardened, only mechanical means are effective.

SAFETY

General precautionary measures when handling chemicals are advisable. Rayston Cem Imper Flex is not toxic but it is abrasive. Refer to the Material Safety Data Sheet for more information. In general, suitable protective clothing and eye protection is advisable. Avoid dust inhalation. This product is not suitable for DIY applications and it is reserved for professional users.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precautions as if they were full. Dispose of the container according to the local law.



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OTHER INFORMATION

The information contained in this Technical Data Sheet, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" in order to determine their convenience for a specific project.

Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

This Data Sheet supersedes all previous versions.



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