

Water Resistant, S.B.R Bonding Emulsion and Mortar Additive

PRODUCT DESCRIPTION

Rayston Latex is a modified styrene butadiene emulsion. Due to its polymeric action, mortars containing **Rayston Latex** have superior adhesion, good compressive strengths and considerably improved flexural and tensile strengths. In addition, **Rayston Latex** mortars have greatly reduced water permeability, improved resistance to chemicals and to abrasion; are Non-Toxic and non-corrosive. **Rayston Latex** mortars possess excellent freeze thaw resistance coupled with resistance to long term water immersion.

USES

Rayston Latex may be used in applications such as:

- High strength floor screeds.
- Repair mortar for patching and filling.
- For filling and patching mortars that require thin layer finishing.
- For tile adhesive systems.
- For producing floor screeds with enhanced freedom from 'dusting', but with improved flexibility and resistance to cracking.
- For bonding Slurry between old and new concrete.
- Suitable for use in cement mortars in contact with drinking water.
- Bond Strength (ASTM-C-882)

ADVANTAGES

Rayston Latex is simply added to the mixing water to provide the following beneficial properties:

- Extremely good adhesion.
- Reduced shrinkage.
- Greater elasticity.
- Excellent water resistance.
- Increased abrasion resistance.
- Improved chemical resistance.
- Non -toxic.

N.B. **Rayston Latex** does not re-emulsify, even in high alkaline conditions.

Technical Data

Colour White

Density 1.01 ± 0.02 kg/l

Packaging 5 and 20 kg pails
200 kg drums
Bulk Tanks packing available upon request.

Storage Store free from heat and frost in sealed containers.

Shelf life 12 months from date of production if stored properly in original unopened packing.

APPLICATION

Surface Preparation

The substrate must be sound, clean and free from oils, grease or surface contaminants. Remove any loose material and laitance using a scrubbing machine or mechanical abrasion. If base is porous moisten well until uniformly saturated, but leave no puddles of water.

Bonding Agent

On concrete surfaces, brick, block work and for renderings.

(A) This should be mixed to a grout consistency and have the following composition **Rayston Latex** one part, water one part. Cement one part, washed fine sand one part.
(Coverage 4 - 5 m² / liter of **Rayston Latex**).

(B) Apply the bonding grout generously and vigorously with a stiff brush to the prewetted, prepared substrate.

(C) The first mortar coat must then be applied while the bonding grout is still wet

Mixing

- Mix dry ingredients with a mix of water and **Rayston Latex** (1:1 to 1:4).
- Keep mortar and concrete mixes as stiff as possible for the intended use. Mix for a minimum of 3 minutes.
- If mixing **Rayston Latex** with a pre-packaged product the amount of total water in the mix should be reduced to compensate for the addition of **Rayston Latex**.
- Do not over mix mortars containing **Rayston Latex**.
- Do not add **Rayston Latex** to a mortar mix; always add it to the water prior to mixing.
- Always use well graded, clean, washed sand.
- Always keep the W/C ratio to the minimum required to provide correct workability and compaction.

General Recommendations

- Do not use neat **Rayston Latex** as a bonding grout, without adding cement and sand.
- Maximum dilution of **Rayston Latex** with the mixing water is 1:4 (Latex: Water).
- Normal 'concrete' mixers are not suitable for **Rayston Latex** mortars, paddle type mixers are recommended for more efficient and speedier mixing of the mortars.
- Always keep the water/cement ratio to a minimum to enable correct working and compaction. A W/C of less than 0.4 is advised.
- **Rayston Latex** mortars should not be over mixed.
- Mortar toppings should be finished by wood float or steel trowel. Care should be taken to prevent rapid drying of **Rayston Latex** mortars, by the use of polythene, damp Hessian or concrete curing compounds. Always use sharp sand, clean and washed.
- Maximum thickness per lay 40 mm.

Safety Instructions

Ecology

Do not dispose of into water or soil but according to local regulations

Transport

Non-hazardous.

Safety Precautions

Contact with skin, eyes or mucous membrane may cause irritation. Wear gloves and goggles.

Toxicity

Non-toxic under the relevant health and safety codes

Legal Notes

The information, and in particular, the recommendations relating to the application and end-use of Rayston products, are given in good faith based on Rayston current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Rayston recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.