SUPERCRETE LATEX

Emulsion Admixture and Bonding Agent for Concrete and Mortars

Description

Supercrete Latex is an alkali compatible acrylic emulsion, specially modified for use in concrete and cement mortars. The product is a white liquid, which cures to a clear film.

Typical Uses

Supercrete Latex may be used as an adhesive, as a modifier for thin section repair mortars or to provide concrete with low permeability, increased abrasion resistance and mild acid resistance.

Typical application:-

- Bonding repair surfacings.
- Industrial floor repairs and protection.
- Repairs to reservoirs, swimming pools, digesters retaining walls, sumps, columns and beams.
- Improving bond and water tightness of plasters.
- Levelling floors to receive vinyl or tile overlayments.
- Improved washability and chemical resistance of floors in dairies abattoirs, food processing plants and the like (used in combination with dry shake floor hardeners).

Special Features

Supercrete Latex is non-toxic, does not discolour and is suitable for mortars subject to ultraviolet exposure

Special benefits are:-

- Elimination of need for water cure to achieve strength.
- Elimination of dusting caused by lack of surface cure.
- Adjustment of elastic modulus according to dosage.
- Lowered liquid absorption arresting chemical aggression.

Limitations

Do not use Supercrete Latex:-

- At below 5ºC.
- In extreme temperatures (40ºC+), without protection.
- Where aromatic solvents may soften the film.
- Where in service temperature exceeds 100 ºC.

Application

Preparation

- Surfaces to be treated must be clean and structurally sound. All dust, grease, oil, laitance or bond breakers must be removed, and concrete substrates thoroughly wetted to reduce water absorption.

Bond Coat

Mix equal parts of **Supercrete Latex** and water, and to this add Portland cement to form a heavy bodied cream like slurry. Spread the bond coat evenly using a stiff fibre brush. Do not leave standing pools. Place overlayments before the bond coat dries.

Modified Mortars or Concrete

Modification is achieved by preparing mortar or concrete with a mixture of **Supercrete Latex** and water as the gauging liquid. Ratios of latex to water vary according to requirements. In general, however the following guide may be used.

	Latex:Water
Bond Coats	1:1
Thin Repair mortars (± 10mm)	1:3
Thick Surfacing (± 20mm)	1:5
Seal Coats	1:2

Consult Samson Technical Services.

Curing

Supercrete Latex modified mixes **must not be water cured**. Water prevents oxygenation and polymerization of the emulsion. Protection with polyethylene sheet or a suitable Samson curing compound is all that is necessary.

Packaging

Supercrete Latex is available in 5 or 25 litre containers and 200 litre drums.

Storage

Supercrete Latex should be stored in cool, dry conditions and protected from freezing.

Shelf Life

Shelf life is 2 years properly stored, but lumpy skinned or algae affected materials should be discarded.

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