# Lambert<sup>®</sup> Latex

# Synthetic-Rubber Latex for cementitious mixes Water resistant, bonding emulsion and additive for mortar, screeds and renders

ProductLambert Latex is a styrene-butadiene copolymer emulsion. It is stable under wetdescriptionalkaline conditions forming a reinforcing polymer matrix within cementitious<br/>mixes. It improves the overall performance of the final product with respect to<br/>compressive strength, adhesion, flexural strength and durability. In addition<br/>Lambert Latex mortars have greatly reduced water permeability, improved<br/>resistance to chemicals and to abrasion; are non-toxic and non-corrosive.<br/>Lambert Latex mortars possess excellent freeze thaw resistance coupled with<br/>resistance to long term water immersion.

Uses
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Solution Bonding of new to old concrete, screed, renders and plaster

- Cement mortars for laying ceramic tiles with the conventional technique
- Concrete repair mortar for patching and filling holes
- High strength cement floor toppings and screeds
- For filling and patching mortars that require thin layer finishing
- ✤ Waterproof renders for interiors and exteriors
- ✤ As a protective coating for temporarily exposed starter bars

#### Advantages

- Improved tensile, flexural and compressive strength
- \* Excellent bond to concrete, masonry, stonework, plaster and blockboard
- ✤ Reduced shrinkage and shrinkage cracking in repair and screeding mixes
- Increase durability under freeze/thaw cycling
- Reduce screed surface dusting
- Improved toughness, durability, abrasion resistance
- Improved resistance to a wide range of chemicals.
- Non-toxic to human being
- Improved the adhesion and bonding of cementitious mixes
- Resistant to deicing salts
- Resistant to fungus and micro-organism growth

Appearance	White Liquid
Specific Gravity	Approximately 1.02
Solids Content (%)	>46
VOC Content (%)	< 0.005
pH	9.0 - 11.0
Compressive Strength	>60 MPa at 28 days (Mix 2)
Flexural Strength	>10 MPa at 28 days (Mix 2)
Tensile Strength	>6.0 MPa at 28 days (Mix 2)
Bond Strength (Bond Coat)	>1.0 MPa at 28 days (New to old cement mortar)
Initial Surface Absorption Test (ISAT)	0.0075 ml/m <sup>2</sup> /s at 10 minutes
	0.0022 ml/m <sup>2</sup> /s at 60 minutes
Storage Condition	Free from Frost
Shelf Life	1 year when unopened
Packaging	20 kg and 210 Litre

#### Application Surface Preparation

In all situations the surfaces to be treated or coated must be clean, sound and free from dirt, dust and other loose particles. Oils, grease or surface contaminants must be removed. Best preparation is with a scabbing machines or power washer. Exposed steel reinforcement must be cleaned to remove all traces of rust and should be primed with cement-based Lambert Latex slurry to prevent further corrosion.

#### **Bond Coat**

Bond coat to concrete surfaces, masonry or brick surface to accept cementitious renders, screeds or repair mixers. Cement based substrates must be damped with clean water and excess water removed.

Lambert Latex : Cement = 1 : 1 by volume

(Coverage 4-6m<sup>2</sup>/litre of Lambert Latex).

Apply the bond coat generously and vigorously with a stiff brush to the pre-wetted, prepared substrate. The repair mortar, topping or render must be applied on the wet bond coat. If the bond coat dries before application of the mortar, it must be removed and the area reprimed before continuing.

## Mix 1

Standard mortar for water resistant repairs. Patching floors, Screeds, Renders.

Ordinary Portland Cement	50kg
Clean Sand	125kg
Lambert Latex	4.5~5.0Litres
Water	13.5Litres
Yield	0.1m <sup>3</sup>

#### Mix 2

High performance waterproofing renders and screed. Repair mortar with improved chemical and physical properties.

Ordinary Portland Cement	50kg
Clean Sand	125kg
Lambert Latex	9Litres
Water	9Litres
Yield	0.1m <sup>3</sup>

#### Mix 3

Heavy duty floor screeds and heavy duty patch repair mortar for industrial floors from 10mm to 40mm.

Ordinary Portland Cement	50kg
Clean Sand	75kg
3-6mm Aggregate	75kg
Lambert Latex	10Litre
Water	6~8Litres
Yield	0.1m <sup>3</sup>

#### Mix 4

Bonding mortar for slip bricks, tile etc.

Ordinary Portland Cement	50kg
Clean Sand	125kg
Lambert Latex	6Litre
Water	12Litres
Yield	0.1m <sup>3</sup>

These typical mixes are based on the use of dry sand. Allowance must be made for any moisture content of the sand to ensure the correct quantity of Lambert Latex is used.

## General Recommendation

The application parameters for modified mortars will differ depending on the actual mix design used, bust should always be subject to a minimum applied thickness of 6mm. The Lambert Latex modified mortars can generally be applied in sections of up to 40mm thickness.

Hand mix or use a forced action mixer. The components of selected mix are measured by weight or volume and dry mixed. Lambert Latex and water us added to give the desired consistency.

Do not use neat Lambert Latex as a bond coat without adding cement.

Mortar toppings should be finished by wood float or steel trowel. Care should be taken to prevent rapid drying of Lambert Latex mortars, by the use of polythene, damp hessian or concrete curing compounds. Always use sharp sand, clean and washed.

For multiple layers are to be built to achieve total thickness, the surface of the intermediate layers should be scratch-keyed or primed.

Lambert Latex renders, floor toppings and repair mortar should be allowed to cure in accordance with good concrete practice.

Lambert Latex renders, floor toppings and repair mortar should not be applied when the temperature is below 5°C and falling.

Notes

The information, and, in particular, the recommendations relating to the application and end use of Lambert products, are given in good faith based on Lambert's knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respects 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. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

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