

Product Description:

Pumarend LW is a lightweight epoxy mortar which is readily applied to vertical surfaces. The high resin content of **Pumarend LW** permits the application of large volumes of the mortar without the need for stress release joints in areas such as continuous coving, gulleys and structural repairs to concrete. The lightweight nature of the mortar enables the formation of coving and wall rendering without the need for shuttering. **Pumarend LW** is used in conjunction with Pumafloor resin flooring systems to produce a totally seamless "box" finish in high hygiene and decontamination areas.

Pumarend LW is ideal for coving, plinths, bases, drain linings and bunds. It is also used for repairing voids in concrete beams, pre-cast units, concrete structures and stonework. **Pumarend LW** adheres well to concrete, grano and metals. It is also ideal for application over rough brickwork and breezeblock.

Appearance:

Lightly textured coloured finish.

Coverage:

Approximately 1.47 kg per m² is required per 1.0 mm thickness. For example, as a wall render at 4.0 mm thickness, 5.9 kg per m² is required plus wastage. Coving requires additional product to infill the radius, the exact quantity depending on the coving size.

Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate.

Surface Preparation:

Inadequate preparation will lead to loss of adhesion and failure. Substrates should be clean, dry, sound and free of surface laitance. See the **Resdev Guide to Surface Preparation** for further information.

Application Conditions:

Ideal ambient and substrate temperature range is 15 - 25 °C. Localised heating (electric powered warm air blower) or cooling equipment may be required outside this range to achieve ideal temperature conditions. The aggregate can be stored in a cool area (or warm area in the case of low ambient temperature) in order to control product temperature and working life.

The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, from before priming to at least 48 hours after application.



Priming:

Pumarend LW should be applied into tacky **Pumaprime TC** (typically 45 - 60 minutes after application). If, prior to application of **Pumarend LW**, there are dry patches, a further primer coat is required. If the primer has been left to cure then the primer surface should be mechanically abraded and the area re-primed.

Application:

Prior to mixing, the temperature of the three components must be between 15 and 25 °C. Pre-mix the coloured resin component before use. Add the hardener component to the coloured resin component and mix using a low speed electric mixer (200 - 500 rpm) for 1 - 2 minutes until homogeneous.

Decant the mixture into a rotary drum mixer and add the aggregate component in stages, mixing for a minimum of 3 minutes until a uniform coloured, lump-free mix is obtained. Apply the mixture immediately onto pre-primed areas using a coving trowel to form skirting if required. Avoid excessive trowelling which may lead to 'trowel burn'.

Sealing:

Due to the dry nature required of rendering products, **Pumarend LW** shows a lower colour strength than flooring materials and colour density may vary throughout an installation.

Where a closer colour match is required or where **Pumarend LW** requires sealing, for example, in wet areas or where chemical spillages are likely, **Pumatect V** should be applied between 18 and 24 hours, after application of **Pumarend LW**. See separate technical datasheet.

Typical Requirements:

1. Pumaprime TC @ 200.0 - 250.0 g/m²
2. Pumarend LW @ 1.47 kg/m² per 1.0 mm thickness
3. Pumatect V @ 4.2 m²/kg
4. Pumatect V @ 5.5 m²/kg

Cleaning:

Once sealed with **Pumatect V**, **Pumarend LW** can be easily cleaned using industry standard cleaning chemicals and techniques.

EU Directive 2004/42/EC:

Complies with category j type SB (< 500 g/l VOC content).

Available Colours:

Please see price list for available colours.

Technical Advice:

For further information on this or any other Resdev product, please contact our office.

Health & Safety:

Refer to product Safety Data Sheet before use.

Limitations:

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >75% or if the surface temperature is <3 °C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be <5 °C during the application or within the curing period. The design strength of concrete surfaces must be a minimum of 25 MPa compressive strength at 28 days. The manufacture of **Pumarend LW** is a batch process and despite close manufacturing tolerances, minor variations in shade may occur between batches. Products from different batches should not be used on the same surface or surfaces close together. If mixed batches are unavoidable, it is best practice to use the different batches only in areas where the colour cannot be directly compared. Touching up should only be attempted using product from the same batch using the same application methods. Product should be reserved specially for this purpose. It is recommended that touching up is carried out up to a break in the floor or surface.

PRODUCT INFORMATION	
Chemical Type	Lightweight Epoxy Mortar For Vertical Surfaces & Radius Coves
Packaging	23.48kg Unit: Resin: 2.43kg Hardener: 1.05kg Aggregate: 20.00kg
Shelf life	Resin & Hardener: 12 Months Aggregate: 12 Months
Storage conditions	Pumarend LW must be stored off the ground in original packaging, unopened and undamaged. The ambient conditions must be dry and between 10°C and 30°C with no direct sunlight. Protect from frost.

TECHNICAL INFORMATION *	
Adhesive strength to concrete	BS EN 13892-8 >1.5 N/mm ²

*The typical physical properties given above are derived from testing in a controlled laboratory environment. In the field results may vary due to site conditions.

Pumafloor systems are not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced on lighter colours but does not affect the performance of the product.

APPLICATION INFORMATION

Mixing Ratio	MIX FULL UNITS
Consumption	1.47 kg/m ² per 1.00 mm thickness.
Environmental Conditions	Air Temp +15°C to 25°C Relative air humidity <75% Dew Point >3°C above
Substrate Temperature	+15°C to 25°C
Substrate Moisture Content	Substrate relative humidity (RH): <75% Concrete must have a tensile strength: >1.5 N/mm ²
Pot life (approx.)	+10°C 45 minutes +/- 5 minutes +20°C 30 minutes +/- 5 minutes +30°C 20 minutes +/- 5 minutes
Curing Schedule 20°C	Full Cure 7 days Note: Pumatect V should be applied between 18 and 36 hours, after application of Pumarend LW .
Service Conditions	Can be cleaned up to 60°C once sealed and fully cured.

APPROVALS & STANDARDS

Synthetic Resin Screed material according to EN 13813:2002

Note: The information contained in this document, and all further technical advice is given based on our present knowledge and experience. However it implies no liability or legal responsibility on our part. In particular, no warranty or guarantee of product performance in the legal sense is intended or implied as the conditions of use and the competence of any labour involved in the application is beyond our control. Properties listed are for guidance purposed only. We reserve the right to make any changes according to technological progress or further developments.

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CE		13	DOP RV0023
EN 13813 SR-B1,5 Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations			
Reaction to fire:	NPD	Impact resistance:	NPD
Release of corrosive substances :	SR	Sound insulation:	NPD
Water permeability:	NPD	Sound absorption:	NPD
Wear resistance:	NPD	Thermal resistance:	NPD
Bond strength:	B1,5	Chemical resistance:	NPD