

Pumarend LW

Lightweight epoxy mortar for vertical surfaces and radius coves



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 Pumaflor resin flooring systems to produce a totally seamless "box" finish in high hygiene and decontamination areas.

Pumarend LW is ideal for coving, plinths and bases, drain linings and bunds

Appearance

Lightly textured coloured finish.

Typical Installations

Pumarend LW is used to form chemically resistant coving, fillets, gulleys, wall finishes, drainage systems etc. it is used in conjunction with Resdev epoxy resin flooring to produce a totally seamless finish. **Pumarend LW** is also used for repairing voids in concrete beams, pre-cast units, concrete structures and stonework.

Substrates

Pumarend LW adheres well to concrete, grano and metals. It is also ideal for application over rough brickwork and breezeblock.

Thickness

Typically 2 - 25 mm

Typical Properties, 28 days at 20 °C

Adhesion to concrete (BS EN 1504-2) > 1.5 MPa (concrete failure)

The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary dependent upon site conditions.

Cure Schedule at 20 °C

Working life of full packs * 25 minutes

* Usable working life of material following mixing and immediate spreading as per the application instructions.

Finished floor *

Setting time 12 hours
Full cure 7 days

* The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions.

Pack Size

23.48 kg

Coverage*

Approximately 1.47 kg/m² is required per 1 mm thickness. For example, as a wall render at 4 mm thickness, 5.88kg/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.

Colours

Pumarend LW is available in a range of standard colours. **Pumarend LW** is 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 with lighter colours and blue shades and does not compromise the product's performance or chemical resistance characteristics.

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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.

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 Instructions

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 for >48 hours then the primer surface should be mechanically abraded and the area re-primed.

Application of Pumarend LW

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 tooling 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 within 24 hours of application. See separate technical datasheet.

Typical Requirements

1. **Pumaprime TC @ 200-300 g/m²**
2. **Pumarend LW @ 1.47 kg/m² per 1 mm thickness**
3. **Pumatect V @ 4.2 m²/kg**
4. **Pumatect V @ 5.5 m²/kg**

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy and appearance of the product. **Pumarend LW** can be easily cleaned using industry standard cleaning chemicals and techniques, especially where sealed using **Pumatect V**. Consult your cleaning chemical and equipment supplier for more information

Health and Safety

Refer to product Safety Data Sheet before use.

EU Directive 2004/42/EC

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

Storage

Materials should be kept dry and stored in a weatherproof building maintained at 15 °C to 20 °C on pallets and away from walls. Consignments should be used in order of batch number. Protect from frost.

Shelf Life *

12 months if stored in accordance with the above recommendations.

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >80% 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.

Technical Advice

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

Note

The information contained in this document, and all further technical advice given is 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 are beyond our control. Properties listed are for guidance purposes 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

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