

Pumaprime ESD

Solvent free conductive primer



Resin Development

Description

Pumaprime ESD is a two-component solvent-free conductive primer based on waterborne epoxy technology.

Uses

Pumaprime ESD is used as a conductive primer for anti-static and electrostatic dissipative systems such as **Pumadur HF ESD**, **Pumadur SL ESD** and **Pumafloor ESD**.

Advantages

- Low viscosity / easy to mix and apply
- Long pot-life
- Conductive
- High solids

Typical Properties, 20°C

Mixed density	1.2 g/cm ³
Solids content	48% by volume

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 on actual site conditions.

Cure Schedule at 20 °C

Working life of full packs *	45 minutes
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* Usable working life of material following mixing and immediate spreading as per the application instructions.

Finished floor *

Over-coat time	12 - 48 hours
Full chemical resistance	7 days

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

Surface Preparation

Inadequate preparation will lead to loss of adhesion and failure. In coatings and flow applied systems there is a tendency for the finish to mirror imperfections in the substrate. Grinding, or light vacuum-contained shot-blasting is therefore preferred over planing for these systems. Percussive scabbling or acid etching is not recommended. Refer to the **Resdev Guide to Surface Preparation** for further information.

Mixing

Pumaprime ESD is a two-component product. Fully drain the contents of the hardener component into the resin component and mix thoroughly with a low speed electric mixer (300 - 400 rpm) for a minimum of 3 minutes scraping sides and bottom of container until homogeneous. Pour the material into a fresh container and mix for a further minute.

Application Conditions

Ideal ambient and substrate temperature is 15 - 25 °C. Localised heating or cooling equipment may be required outside these parameters. The atmospheric relative humidity should be below 70% and good ventilation should be provided to aid the removal of water and maintain curing times. 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 before, during and directly after application.

Application Technique

Pumaprime ESD must be applied to surfaces pre-primed with **Pumaprime SF** which has been allowed to cure. Apply evenly using a medium pile roller or brush. Do not exceed the coverage rate of 4 m²/kg. Do not pour directly onto the substrate as this may result in thick patches. Use a 1" paintbrush to work material into earthing and bridging points ensuring good contact. When cured, the resistance to earth as measured by the chosen test method should be 5 x 10⁴ ohms or less. This test must be carried out and logged. If, when cured, there are glossy or bare patches, a further primer coat is required. Allow to cure for a minimum 12 hours at 20°C. If the primer has been left to cure for >48 hours then the primer surface should be mechanically abraded and the area re-primed.

Estimating

250 g/m² per coat. Coverage will be reduced by rough, porous substrates and low temperatures.

Packaging

Pumaprime ESD is available in 2.5 kg and 10 kg units.

Earthing

It is recommended that each individual slab is either connected to each other by bridging or each individual slab be directed to earth. The use of copper tape is recommended for this purpose. As a general rule, apply copper tape at maximum 4 metre centres ensuring that no part of the floor is more than 2 metres away from copper tape.

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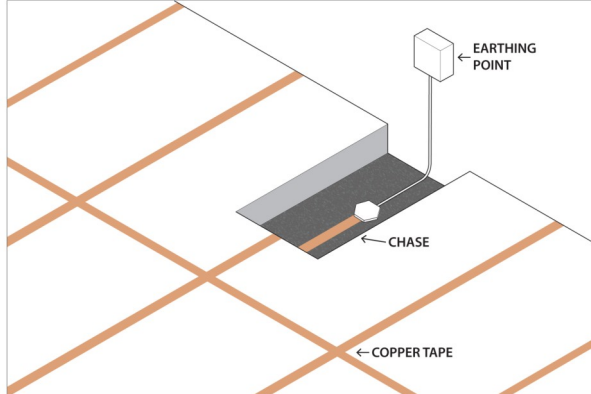
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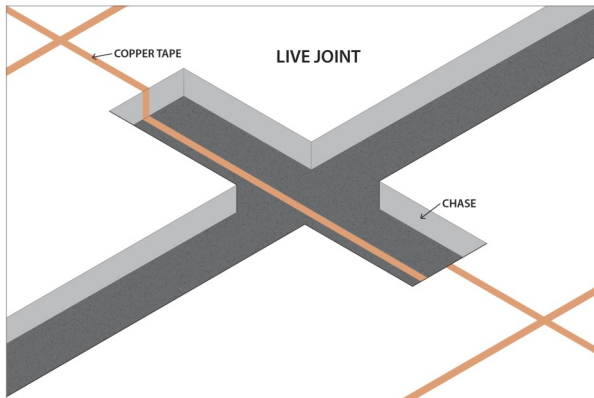
Connection to Earth

1. Prime floor surface using Pumaprime SF.
2. When primer is dry, bond the copper tape to the primed concrete and connect the end of the tape to suitable earth points.
3. Overcoat to top of tape with Pumaprime ESD.
4. When primer is cured, apply the final finish.



Bridging Live Joints

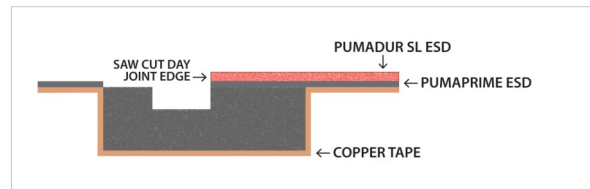
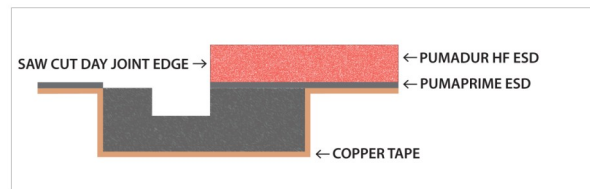
1. Prime the floor surface with **Pumaprime SF**.
2. Apply copper tape either side of the joint ensuring that the tape within the joint is looped at least 20 mm below floor level. Fill the chase with a suitable repair product.
3. Overcoat the exposed copper tape with **Pumaprime ESD**.
4. Fill the top of the joint with closed cell polythene backer rod and overlay the joint completely with the final finish ensuring that the path of joints is clearly marked.
5. When cured, saw cut out the topping - replace the rod at required depth and seal the joint with suitable joint sealant.



Day Joints

On large areas, it may be necessary to incorporate a day joint or suspend the laying operation due to project scheduling. In this case, the floor should be treated as follows:

1. Saw cut a 5 mm wide x 10 mm deep chase into the floor for a distance of 50 mm either side of the proposed day joint.
2. Apply copper tape to the primed floor leaving a leading strip into the next bay then apply **Pumaprime ESD** and the final finish to the edge of the day joint. Fill the chase as necessary.
3. Saw cut the exposed edge of the final finish when ready to recommence work then apply **Pumaprime ESD** and the topcoat to the new area. Ensure that the top surface of the leading copper tape is clean before applying **Pumaprime ESD**.



Cleaning

Tools should be cleaned promptly with **Pumasolve**.

Storage

Pumaprime ESD has a shelf life of 12 months if stored off the ground in unopened packs in a dry store under cover at temperatures between 15 and 25°C. Protect from frost.

Health & Safety

Please refer to the latest revision of the safety data sheet.

Note

The information contained in this document, and all further technical advice given, is based on our present knowledge and experience. However, no warranty or guarantee is given or implied of product properties or suitability for a particular use or application. The user is responsible for determining the suitability of products for the intended use. We reserve the right to make any changes according to technological progress or further developments.

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CE		13	DOP RV0010
EN 13813 SR-B2,0 Synthetic resin floor screed material for internal uses subject to reaction to fire regulations			
Reaction to fire	E ⁽¹⁾	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	B2,0	Chemical resistance	NPD

⁽¹⁾ According to Commission Decision 2010/85/EU of 9 February 2010, the product satisfies all the requirements of the performance characteristic 'reaction-to-fire' class E without need for further testing.