

# Pumadur DD Undercoat

Undercoat/Primer for Pumadur DD Coloured Coating Systems



## Description

**Pumadur DD Undercoat** is a high solids solvent-based two pack aliphatic coloured polyurethane primer/undercoat sealer for use with **Pumadur DD Coloured** finishes. **Pumadur DD Undercoat** has excellent opacity and dries to a flat matt finish. The cured coating exhibits excellent resistance to a wide range of chemicals and has outstanding UV and weather resistance.

## Appearance

Coloured coating with a matt finish.

## Dry film thickness

Approximately 75 - 100 µm per coat

## Coverage

**Pumadur DD Undercoat** is designed to economically seal the substrate so that subsequent applications of **Pumadur DD Coloured** can be applied with ease and improved coverage rates. As substrates can vary widely in terms of surface profile and porosity, the coverage rate required can only be determined by carrying out test applications. As a guide, coverage rates of 3 - 4 m<sup>2</sup>/kg are common on suitably prepared good quality concrete.

It is recommended that **Pumadur DD Coloured** systems are applied in a minimum of three coats based on one coat of **Pumadur DD Undercoat** followed by two coats of **Pumadur DD Topcoat**. Additional coats of undercoat or topcoat may be required depending on the nature of the substrate and the end use.

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

## Application Conditions

The ideal ambient, substrate and material temperature range is 15 - 20 °C. Localised heating or cooling equipment may be required outside this range otherwise the surface finish may be impaired. The maximum substrate and atmospheric relative humidity should be 75%. 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

### Cementitious Substrates

All substrates must be protected by an adequate and effective DPM. Inadequate preparation will lead to loss of adhesion and failure. In coatings, there is a tendency for the finish to mirror imperfections in the substrate. For

concrete substrates, grinding or light vacuum contained shot-blasting is therefore preferred over planing for these systems. Refer to the **Resdev Guide to Surface Preparation. Steel Substrates**

Steel surfaces should be blasted to Swedish standard SA 2 ½ standard, free from any contamination that may prevent adhesion and coated immediately to prevent flash rusting.

## Cure Schedule at 20 °C \*

Working life of full packs	60 minutes
Over-coating time (minimum)	16 hours
Over-coating time (maximum)	36 hours
Light foot traffic	16 hours
Medium duty traffic	48 hours
Full Cure	7 days

If the maximum over-coating time is exceeded the coating should be mechanically abraded thoroughly and re-coated.

\* The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions. Higher temperatures will shorten working time and lower temperatures will extend cure times.

## Pack Size

2.5 kg & 5 kg

## Colours Available

**Pumadur DD Undercoat** is available in a wide range of standard colours. However, please check as some colours are not available in this product.

## Application Instructions

Prior to mixing, the temperature of both components should be between 15 and 20 °C. Add the hardener component to the coloured resin component and mix using a low speed electric mixer (300 - 400 rpm) for at least 3 minutes until homogeneous. Keep the mixing paddle fully submerged to avoid the entrapment of air and scrape the sides and bottom of the vessel several times. Distribute the mixture immediately onto the surface using solvent resistant short nap lint-free mohair roller. Plan the work area to ensure a constant wet edge and work within the working time of the material. It is imperative that film thickness is kept constant to maintain consistency of appearance. This should be regularly checked using a wet film thickness wheel. Avoid pooling as this will lead to solvent entrapment and un-cured areas.

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Do not apply subsequent coats until the previous coat is cured. This will depend on temperature, atmospheric humidity and degree of ventilation. Adequate ventilation and air movement is necessary.

If applying by spray, suitable respiratory protective equipment should be worn by all exposed persons.

### Health and 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 < 7°C during the application or within the curing period. The manufacture of **Pumadur DD Undercoat** is a batch process and despite close manufacturing tolerances, colour variation 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 RV0008
EN 13813 SR-B2,0 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	B2,0	Chemical resistance	NPD

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Resin Development

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