Pumacoat V Coloured Data Sheet

Specification notes

Product: Pumacoat V Coloured

Supplier:

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**Description**

Pumacoat V is a two-component water dispersed epoxy coating for use on concrete and polymer modified cementitious screeds, cementitious renders, brickwork and block work. Pumacoat V is designed to provide a tough, hard wearing protective finish in a range of colours. Being water-based, Pumacoat V may also be applied to 7 day old ‘green’ concrete. Its easy to clean, silk finish makes the product ideal for industrial wall finishes in laboratories, farm buildings, warehousing, garages and other areas.

**Appearance**

Semi-gloss / silk finish available in a wide range of colours and clear.

**Features & Benefits**

- Water based technology
- Good light stability
- Durable and non-dusting
- Economical and easy to apply

**Thickness**

Approximately 70 to 90 microns per coat.

**Typical Properties, 28 days at 20 °C**

| BS 8204-6 Type 1/2 | > 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 * 45 to 60 minutes

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

Finished floor

- Over coating period 8 - 24 hours
- Cure time to light pedestrian traffic 24 hours
- Cure time to medium duty traffic 48 - 72 hours
- Full cure 7 days

The material should be protected from contact with water for 7 days.

* The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions. At lower temperatures curing times will be extended.

**Pack Size**

2.5 kg and 5 kg units

**Coverage**

A minimum of two coats are required. Some substrates, especially uneven surfaces will require additional coats depending on profile and porosity. Light or bright colours such as safety yellow or safety red may require additional coats to achieve full opacity. As a guide:

**Porous or uneven substrates e.g. Brickwork, block work:**

1st Coat diluted 5 - 10 % by volume: 7 - 12 m²/kg
1 or 2 final coats undiluted: 7 - 9 m²/kg

**Smooth/dense surfaces e.g. Dense brickwork, steel trowelled renders:**

1st Coat undiluted: 7 - 10 m²/kg
Final coat undiluted: 7 - 9 m²/kg

**Dry/porous surfaces:**

1st Coat diluted 10 - 20 % by volume: 8 - 10 m²/kg
1 or 2 final coats undiluted: 7 - 10 m²/kg

* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate. If in doubt, a trial area should be prepared to assess coverage rates.

**Colours**

Pumacoat V is not 100% 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.

**Application Conditions**

Resin products should not be mixed and laid outside of the range 10 °C to 25 °C. Localised heating or cooling equipment may be required outside this range to achieve ideal temperature conditions. To reduce the risk of “blooming” caused by condensation, the climate above the uncured floor should be maintained at least 3 °C above the dew point for at least 48 hours after application. The atmospheric relative humidity should be below 80% and good ventilation should be provided to aid the removal of water and maintain curing times. The substrate should be surface dry with a maximum relative humidity of 75% and free from rising damp and ground water pressure. An effective damp proof membrane should be present in walls and floors.
Surface Preparation
The concrete substrate must be sound with a minimum compressive strength of 25 N/mm² and a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. 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. 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.

The substrate should be smooth as surface irregularities will show through the coating and excess wear will occur on high spots. If any doubts exist, trial applications should be carried out to assess the adhesion characteristics of Pumacoat V in specific situations.

Application Instructions
Pre-mix the coloured component before use. Add the hardener component to the coloured resin component and mix using a slow speed electric mixer (200 - 500 rpm) fitted with a mixing paddle designed to minimize air entrainment for a minimum of 2 minutes until homogeneous. Care should be taken to ensure that any material adhering to the sides and bottom of the mixing vessel is thoroughly mixed in otherwise uncured patches may result.

Apply by brush or roller from a paint tray. Depending on the substrate porosity, the first coat may be diluted with potable water to aid penetration. The water should be added after mixing of the resin and hardener components is complete. Apply as thinly as possible and avoid ponding of the coating as trapped water will lead to incomplete cure. Do not apply subsequent coats until the previous coat is completely dry. This will depend on temperature, atmospheric humidity and degree of ventilation. Adequate ventilation and air movement is necessary. Each coat should be applied at right angles to the previous coat in order to minimize imperfections and unevenness overall. Uneven application may lead to differences in gloss level across the cured floor.

Health and Safety
Refer to product Safety Data Sheet before use.

EU Directive 2004/42/EC
Complies with category j type WB (< 140 g/l VOC content).

Storage
Materials should be kept dry and stored in a weatherproof building maintained at 15 ºC to 20 ºC 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 >85% or if the surface temperature is <3 ºC above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be <10ºC during the application or within the curing period. The manufacture of Pumacoat V 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. Wear in heavy concentrated foot traffic areas is reduced such as around work stations, vending machines etc. In these areas it is advisable to either specify additional coats or specify a higher build system from the Resdev range.

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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Water dispersed epoxy floor coating
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