



Technical Datasheet
Water Dispersed Epoxy Coating

PUMACOAT V

DESCRIPTION

Pumacoat V is a water based solvent free chemically resistant coating available in a range of attractive colours. It has good light stability and being solvent free is ideal for use as long-term protection in areas where solvent containing coatings should not be used.

COMPOSITION

Water miscible epoxy resin coating.

APPEARANCE

Surfaces coated with Pumacoat V have a semi-gloss silk finish.

DURABILITY

Pumacoat V will give excellent long-term protection compared to conventional paint systems.

THICKNESS

70-90 µm per coat.

TYPICAL INSTALLATIONS

Decorative coloured coating or clear dustproof seal for industrial wall surfaces in laboratories, wash down bays, farm buildings, warehousing, general storage, exhibition areas, pharmaceutical, soft drinks and brewing industries, and general industrial locations. Pumacoat V is applied to cementitious renders, sound cured plaster finishes, brickwork and blockwork.

SUBSTRATES

Pumacoat V adheres well to concrete, render brickwork, blockwood etc.

SURFACE PREPARATION

All wall surfaces must be protected by an adequate and effective DPM at the base of the wall or at the back of the wall in underground situations, and normally have a maximum residual moisture content of 5% by weight (75% Relative Humidity). However, application of a first protective coating can take place 48 hours after installing sand and cement wall renders for application of final coats later in the contract. Surfaces to be treated must be sound, free from oil or other contaminants, old distemper, loosely adhering coatings, laitance and dust. Smooth and dense surfaces should be lightly abraded to provide a mechanical key. All residual dust and loose materials must be removed by industrial vacuum before priming to ensure that primer penetration is not retarded by residues. Metal, glass and other glossy surfaces may be pre-treated by a single coat of Pumaprime DS. Please refer to technical data sheet reference TD003. If any doubt exists we recommend trial applications to establish the adhesion characteristics of Pumacoat V in specific site situations.

APPLICATION CONDITIONS

5-30°C. Maximum moisture content of 75% RH.

MIXING

Pour the full contents of the hardener container into the full contents of the resin container and mix thoroughly with a slow speed electric stirrer for a minimum of 2 minutes.

APPLICATION TECHNIQUE

Transfer the mixed resin into a paint tray and apply by brush or roller. Apply as thinly as possible to avoid entrapped water.

COVERAGE RATES

Porous uneven surface e.g. brickwork, blockwork.

Sealing Coat: Diluted 5-10% by volume with water 7-12m²/kg
1 or 2 Final Coats: 7-9m²/kg per coat undiluted

Smooth dense surfaces e.g. plaster, steel trowelled renders, dense smooth flush pointed blockwork.

Sealing Coat: 7-10m²/kg per coat undiluted
Final Coat: 7-9m²/kg per coat undiluted.

A second final coat may be necessary on blockwork dependent on surface profile.

Dry porous surfaces

Sealing Coat: 8-10m²/kg diluted 10-20% potable water.
1 or 2 Final Coats: 7-10m²/kg undiluted

N.B. Coverage rates will be dependent on surface porosity and profile. Uneven surfaces do require more material on every coat as the actual surface area to be treated is increased by the surface profile, i.e. a high profile may result in the flat measured area being increased by a factor of 2 times to 2.5 times.

SPECIFICATION DETAIL

2 or 3 coats Pumacoat V depending on substrate as above.

MAINTENANCE

Surfaces treated with Pumacoat V require the minimum maintenance such as wiping down and flushing with water to be maintained in original condition.

CURE SCHEDULE

Pot Life at 20° C	- 45-60 mins
Tack Free Time	- 6-8 hours
Overcoat Time	- 8-24 hours
Full Cure	- 7 days

CHEMICAL RESISTANCE

Please refer to technical data sheet reference TD112.

COLOURS AVAILABLE

Pumacoat V is available in the full range of Resdev colours.

TECHNICAL DATA

Fire Test Rating BS 476:Part 7:1987 (amended 1990) Surface Spread of Flame-Class 1 rating. BS 476:Part 6 1989 Flame Propagation-Class 0 rating to UK Building Regulations 1985, Section 15, Approval Document B2/3/4

HEALTH AND SAFETY

Please read technical data sheet and specific health and safety data for this product provided in compliance with the requirements of EC Directive 91/155.

STORAGE, MIXING & APPLICATION

The storage, mixing and application conditions can affect the quality of the finish produced. Please read technical data sheet

TECHNICAL ADVICE

For further information on this or any other Resdev product, please contact our Customer Care Department.