



Technical Datasheet
Weak Substrate Reinforcer

PUMABIND

DESCRIPTION

Pumabind is a high solids, low viscosity epoxy resin penetration sealer or binder for application to porous and weak impoverished cement based flooring. Pumabind is absorbed into porous sand cement screeds providing physical strengths well in excess of the original specification. Friable and weak substrates can be strengthened and the treated surface be back in action within 24 hours.

COMPOSITION

High solids epoxy/amine resin system containing less than 5% by weight of "flammable" solvent.

APPEARANCE

Smooth, clear (almost non-visible) gloss film.

DURABILITY

Excellent long term binary performance over porous surfaces.

TYPICAL INSTALLATIONS

Pumabind is used for sealing badly dusting sand cement screeds and concrete floors and as a penetration binder to replace cement in "underbond" mixes. Floors treated with Pumabind can be back in service within 24 hours whereas the alternative would be to uplift and relay the screed. Pumabind may also be used as a sealer for porous plasters and renders.

SUBSTRATES

All porous, penetrable surfaces.

SURFACE PREPARATION

This product is designed for application over problematic substrates which do not provide sound surfaces when pre-treated by conventional methods. Resultancy only basic pre-treatment is necessary to ensure loose friable dust is removed.

APPLICATION CONDITIONS

Ideally 15-25° C. This product should not be applied below 5°C. Maximum moisture content of 75% RH.

MIXING

Empty complete contents of hardener component into resin container and mix thoroughly by means of slow speed electric mixer.

APPLICATION TECHNIQUE

Pumabind may be poured over porous areas and spread by means of a soft bristle brush or roller to ensure thorough wetting of the surface is achieved. If totally absorbed by the surface, further application may be effected whilst still wet to ensure porosity is satisfied. Ideally there should be a visible excess of resin over the treated/finished surface.

COVERAGE RATES

Coverage rates will vary dependent upon porosity and friability of matrix. Typical Coverage: 0.2kg—2kg/m². This is a guide and on occasions more may be required. A site trial is advisable prior to commencement.

SPECIFICATION DETAIL

One heavy coat of Pumabind or several individual coats of Pumabind.

CURE SCHEDULE

Tack free time at 20° C	- 6-8 hours
Cured to light foot traffic at 20° C	- 16-24 hours
Full Cure at 20° C	- 5-7 days
Overcoating time in separate coats at 20° C	- 6-24 hours
Overcoating time with other 'Resdev' Systems at 20° C	- Minimum 6 hours - Maximum 72 hours

TECHNICAL DATA

Compressive Strength	- 40N/mm ²
Tensile Strength	- 20N/mm ²
Flexural Strength	- 20N/mm ²
Lap Shear Bond Strength	- 6-8N/mm ²
Water Vapour Permeability	- 2g/m ² /mm/day

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 Technical Department on 01422 379131.