



Technical Datasheet
High Build Epoxy Floor Coating

PUMATECT H.T.

DESCRIPTION

Pumatect HT is a solvent free high build epoxy floor coating for concrete, grano or asphalt. It has excellent abrasion and chemical resistance and provides a heavy duty coating for floors which will withstand many years of traffic.

The high build characteristics of Pumatect HT permit the application of coatings in excess of 0.25mm per coat. Two coats of Pumatect provide a build equivalent to almost 10 coats of conventional solvent containing coatings.

On rough and uneven concrete Pumatect HT can give a smooth and easily cleanable surface. Also can be applied as a one coat application, if the coverage rate is 0.365g per m² or over (the aesthetics are dependant on application technique and sub floor porosity).

COMPOSITION

Pumatect HT is a two pack solvent free epoxy resin of medium viscosity combined with abrasion resistant fine fillers.

APPEARANCE

Pumatect HT provides a smooth gloss surface finish in a range of colours or clear.

DURABILITY

Excellent long-term wear resistance can be expected from a two coat application.

THICKNESS

0.25mm to 1.5mm depending on application rate and number of coats.

TYPICAL INSTALLATIONS

Pumatect HT in areas requiring good wear and chemical resistance combined with economical cost. It is suitable for chemical plant storage areas, warehousing, toilets, food preparation areas etc.

SUBSTRATES

Pumatect adheres well to concrete, grano, metals and asphalts.

SURFACE PREPARATION

To be assured of maximum adhesion and properties from Resdev resin products, the correct surface preparation is essential. Please refer to technical data sheet "Surface Preparation" reference TD102.

APPLICATION CONDITIONS

Pumatect HT is a fairly thick resin and although it will apply and cure at low temperatures, an ambient in excess of 10°C is preferable.

PRIMING

Pumatect HT does not normally require a primer. When treating extremely weak or porous concrete it is advisable to prime with Pumaprime S.F., or a scratch coat of Pumatect HT

MIXING

Add full contents of hardener container to full contents of resin container and mix with a slow speed stirrer for at least 2 minutes.

APPLICATION TECHNIQUE

Apply by medium nap roller directly from a paint tray. Push the resin well into the surface making sure the floor is fully wetted and then pull back lightly with the roller to the required thickness. Use coverage rates as a guide to thickness. For a 1 coat application we recommend that a rubber lipped squeegee is used followed by a short nap roller, this may produce a slight orange peel effect across the surface.

COVERAGE (NOMINAL 0.5mm)

1st coat -approx. 0.440g/m²
2nd coat -approx. 0.295g/m²

COVERAGE (NOMINAL 1mm)

1st coat -approx. 1.46kg/m² (Single Coat Application)

COVERAGE (NOMINAL 0.5mm) (Single Coat Application)

1st coat -approx. 0.750g/m²

SPECIFICATION DETAIL

Two coats Pumatect HT at a nominal 0.4-1mm depending on requirement.

MAINTENANCE

Pumatect HT treated floors can be readily cleaned using a propriety cleaning solution.

CURE SCHEDULE

Pot life @ 20°C	-30-45 minutes
Dry film time @ 20°C	-8-10 hours
Intercoat period	-8-24 hours
Foot traffic	-16-24 hours
Full cure	-7 days

CHEMICAL RESISTANCE

Good resistance to a wide range of chemicals. Please refer to technical data sheet reference TD112.

TECHNICAL DATA

Compressive strength	-40N/mm ²
Flexural strength	-28N/mm ²
Lap shear bond strength	-15N/mm ²
Elastic modulus	-3.9kN/mm ²
Ease of decontamination to BS 4247 : part 1 test A "Good"	
Abrasion Resistance	< 0.02mm (C&C Abrasion test as per BS 8204)
Impact Resistance	< 0.5mm (BRE Screed test)

HEALTH AND SAFETY

Please read technical data sheet reference TD103(EC Directive 91/155)

STORAGE, MIXING & APPLICATION

Please read technical data sheet reference TD104.

TECHNICAL ADVICE

For further information on this or any other Resdev product, please contact our Customer Care Department on 01422 379131.