



Technical Datasheet
Flexible Polyurethane Coating

PUMAFLEX 500

DESCRIPTION

Pumaflex 500 is a solvent free high build polyurethane floor seal for concrete, grano and asphalt. With excellent resistances to abrasion, chemical attack and other physical aggression including flexing/minor movement.

COMPOSITION

Solvent free polyurethane resin system combined with colour and graded fine aggregate.

APPEARANCE

Totally seamless, glossy smooth finish with uniform colour.

DURABILITY

High order of durability, resistance to abrasion, impact, chemical attack and penetration.

THICKNESS

Applied between 0.25 – 0.50mm.

TYPICAL INSTALLATIONS

Pumaflex 500 is ideally suited for areas subject to heavy duty use:-
Chemical Processing
Food preparation/wet areas
Brewing/dairy clean areas

SUBSTRATES

Concrete, polymer reinforced, grano concrete, asphalt, mild steel, alloys and water resistant plyboard.

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

5-30°C; maximum moisture content within 75% RH

PRIMING

When treating extremely weak or porous concrete then prime with Pumaprime SF. When applying to Aluminium alloys, Zinc, Copper and glazing prime with Pumaprime DS. Refer to TD003.

MIXING

Pour and fully drain the contents of the clear brown hardener component into the pigmented resin component and mix thoroughly for a minimum of three minutes or until a homogeneous mix is obtained paying special attention to scrape the sides and base of container.

APPLICATION TECHNIQUE

Depending upon film build specified, apply by roller or steel float at the prescribe spreading rate.

COVERAGE RATES

Nominal 0.25mm = 0.39kg/m²
Nominal 0.5mm = 0.78kg/m²

SPECIFICATION DETAIL

Two coats Pumaflex 500 at nominal thickness required.

MAINTENANCE

Provided contamination is not allowed to build up, regular scrubbing or mopping with normal proprietary cleaning agents will maintain this system in serviceable condition. Damaged areas of this system should be patch-repaired/replaced in order to ensure longevity of the work area is maintained.

CURE SCHEDULE

Pot life of full unit	-	45 min @ 20°C
Initial film set time	-	4 hrs @ 20°C
Resistant to light traffic	-	12-16 hrs @ 20°C
Resistant to heavy traffic	-	4-5 days
Full cure/chemical resistance	-	48 hrs @ 20°C

CHEMICAL RESISTANCE

Excellent resistances to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic hydrocarbon solvents and ester solvents. Limited resistances to ketones and alcohol's. Please refer to technical data sheet reference TD115.

GRADES AVAILABLE

Also available as a wall coating as Pumaflex 500 V.

COLOURS

Available in the full range of Resdev colours, except white.

TEST DATA

Elongation at break to B.S.2782	-	70%
Hardness Shore 'D'	-	62
Tensile strength to B.S.2782	-	7N/mm ²
Tear strength to B.S.903 die 'C'	-	33N/mm ²
Compressive strength to B.S.6319 no failure (85% recovery)	-	90N/mm ²
Taber abrasion – dry CS10/1000 cycles/1kg-		80mg
Taber abrasion – dry H18/1000 cycles/1kg-		400mg

HEALTH AND SAFETY

Please read technical data sheet reference TD103 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 reference TD104.

TECHNICAL ADVICE

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