



Technical Datasheet
Flexible Polyurethane Flooring

PUMAFLEX 500V

DESCRIPTION

Pumaflex 500 V is a medium duty liquid applied flexible coating system providing a seamless finish onto vertical surfaces 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 250µm and 500µm.

TYPICAL INSTALLATIONS

Pumaflex 500 V can be used as a finish coat for Pumadur WR and as a permanent protection in areas requiring chemical resistance combined with abrasion resistance such as wash boxes, process tanks, silos etc. Pumaflex 500 V is ideally suited for vertical areas in chemical processing, food preparation/wet areas, Brewing/dairy clean areas.

SUBSTRATES

Concrete, polymer reinforced, granular 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

Sound porous surfaces may be primed by a thin/scratch coat application of Pumaflex 500 V. Aluminium alloys, zinc, copper, glazing and ceramic surfaces should be primed with Pumaprime DS; please refer to TD003. Particularly porous or friable surfaces may be primed with a single application of Pumacoat WD clear sealer; please refer to TD013. All priming systems should be allowed to cure to a hard finish prior to application of Pumaflex 500 V.

MIXING

Pour and fully drain the contents of the clear brown hardener resin 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

	at 250 µm	at 500 µm
Pumaflex 500 V	0.35kg/m ²	0.7kg/m ²

SPECIFICATION DETAIL

Pumaflex 500 V as primer/scratch coat – 0.20kg/m²
Pumaflex 500 V as required film build.

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 alcohols. Please refer to technical data sheet reference TD115.

COLOURS

Available in the full range of Resdev colours.

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	-	90N/mm ²
no failure (85% recovery)		
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.