



Technical Datasheet  
Flow Applied Epoxy Flooring

# PUMAFLOW 4000

## DESCRIPTION

Pumaflow 4000 is a medium to heavy duty epoxy resin floor finish providing a smooth, easily cleaned surface with excellent resistance to chemicals. The smooth finish is obtained by finishing and smoothing the surface with a specially designed Resdev spiked roller. The incorporation of abrasion resistant fillers in the epoxy resin produces a floor finish with the highest order of wear resistance. Pumaflow 4000 can be applied at thicknesses from 4mm – 6mm.

## COMPOSITION

3 pack solvent free epoxy resin and graded quartz aggregates.

## APPEARANCE

Smooth gloss coloured finish. With use the gloss finish will scratch or matt down. If a gloss finish is to be maintained then polishes can be used. Check with technical department as to the types of suitable polish.

## DURABILITY

Smooth gloss coloured finish. With use the gloss finish will scratch or matt down. If a gloss finish is to be maintained then polishes can be used. Check with technical department as to the types of suitable polish.

## THICKNESS

4 - 6mm

## TYPICAL INSTALLATIONS

Pumaflow 4000 is ideal for areas subject to heavy wear but requiring a smooth easily cleanable surface such as storage areas, dry processing, engineering, laboratories etc. Not suitable for domestic locations.

## SUBSTRATES

Pumaflow 4000 adheres well to concrete and grano.

## 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".

## APPLICATION TECHNIQUE

Spread the mixed Pumaflow 4000 to required thickness using a trowel and level using a Resdev spiked roller. Depending on the temperature it may be necessary to use the spiked roller after 15-30 minutes to ensure that all the air has been released.

## PRIMING

Pumaprime SF at 125g/m<sup>2</sup>. Allow to cure prior to application of Pumaflow. Coverage rate dependant on substrate, porosity and texture.

## APPLICATION TECHNIQUE

Spread the mixed Pumaflow 4000 to required thickness using a trowel and level using a Resdev spiked roller. Depending on the temperature it may be necessary to use the spiked roller after 15-30 minutes to ensure that all the air has been released.

## MIXING

The use of a rotary drum mixer is essential to produce a smooth even finish. Mix the resin and hardener units together thoroughly for at least 60 seconds until even coloured. Then add the Pumaflow aggregate slowly whilst mixing at the same time. Allow to mix for further 3 minutes.

## APPLICATION TECHNIQUE

Spread the mixed Pumaflow 4000 to required thickness using a trowel and level using a Resdev spiked roller. Depending on the temperature it may be necessary to use the spiked roller after 15-30 minutes to ensure that all the air has been released.

## COVERAGE RATES

Pumaflow 4000		
Nominal thickness	4mm	6mm
Coverage kg/m <sup>2</sup>	7.36	11.04

## MAINTENANCE

Providing contamination is not allowed to build up, regular scrubbing and mopping will maintain Pumaflow floors satisfactorily. Pumaflow floors may be polished back to the original gloss in exactly the same way as vinyl or lino.

## CURE SCHEDULE

Pot Life (full unit) at 20° C	-	30 minutes
Initial Set at 20° C	-	8-10 hours
Foot Traffic at 20° C	-	24 hours
Heavy Traffic at 20° C	-	3-4 days
Full Chemical Resistance	-	7-10 days

## COLOURS AVAILABLE

See colour chart for available colours. Please note light colours not available due to UV change. See technical department.

## TECHNICAL DATA

Compressive Strength N/mm <sup>2</sup>	37
Flexural Strength N/mm <sup>2</sup>	30
Slant Shear Bond Strength N/mm <sup>2</sup>	29
Density	1.80
Elastic Modulus kN/mm <sup>2</sup>	3.5
Flame Spread (BS476 Part 7)	Class 2
Thermal Cycle 14 Days	40° C at 100° C @ 24 hour cycle
Showned no debonding or stress	
Ease of decontamination to BS4247:Part 1 Test A	"Excellent"
Taber Abrasion Resistance (1kg load/1000 cycles)	63mg loss (H10)

## HEALTH AND SAFETY

Please read the relevant 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 on 01422 379131.

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