



Technical Datasheet  
Heavy Duty Polyurethane Render

# PUMADUR W.R.

## DESCRIPTION

Pumadur W.R is a lightweight trowel applied cove / wall render based upon a liquid polyurethane resin system. Designed specifically for use with Pumadur polyurethane flooring in order to maintain the same standards of resistance to abrasion and chemical contact.

## COMPOSITION

Water dispersed polyurethane resin system combined with a graded silica aggregate.

## APPEARANCE

A finely textured smooth aggregate surface of uniform colour.

## DURABILITY

Highest order of durability, resistances to abrasion impact and chemical attack – Stable to steam cleaning.

## THICKNESS

2mm – 25mm

## TYPICAL INSTALLATIONS

Pumadur W.R is used to form chemically resistant coving, fillets, gulleys, wall finishes and drainage systems. Used in combination with Pumadur H.F to provide totally seamless “box” finish floor/wall systems within high hygiene sterile process areas. Where used in wet environments or high pressure washing is used, W.R should be overcoated with 2 coats of Pumadur T.F.

## SUBSTRATES

In combination with Pumaprime T.C, Pumadur W.R adheres well to concrete, grano, brick/block, plyboard and mild steel.

## 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

Between 5 and 30° C. Maximum moisture content of substrate 10%

## PRIMING

Priming of all surfaces should be undertaken with Pumaprime T.C. Please refer to TD001. Application of Pumadur W.R should be effected into the tacky (uncured) primer in order to maintain a sound adhesive bond.

## MIXING

Pre-mixing of the coloured liquid component is recommended to ensure any light settlement is reincorporated. Thoroughly drain the contents of the hardener bottle into the container holding the liquid colour component and mix the two thoroughly to produce a homogeneous mix. Load the mixed liquids into a rotary drum mixer and add the aggregate component in stages. Mix until a lump free mix is obtained.

## APPLICATION TECHNIQUES

Apply by plasterers float or coving “iron” directly into tacky Pumaprime T.C. Do not allow primer to cure to tack free state as this could lead to application/adhesion problems.

## COVERAGE RATES

Density of mixed product – typically 1.98  
1.98kg is required per 1mm thickness per m<sup>2</sup>.

## SPECIFICATION DETAIL

1. Pumaprime T.C – 275g/m<sup>2</sup>
2. Pumadur W.R – 1.98kg/m<sup>2</sup> per 1mm build

## MAINTENANCE

Normal regular pressure washing/steam cleaning or scrubbing will ensure Pumadur W.R remains cosmetically and hygienically clean.

## CURE SCHEDULE

Usable Life of full unit @ 20° C	- 20 mins
Initial film gel time @ 20° C	- 20 mins
Cure time to light impact @ 20° C	- 8-12 hours
Cure time to heavy duty service @ 20° C	- 24 hours
Full cure @ 4mm @ 20° C	- 3-5 days

## CHEMICAL RESISTANCE

Excellent resistances to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents. Please refer to technical data sheet reference TD112. Best results are obtained when material is sealed with Pumadur T.F. See technical data sheet reference TD015.

## COLOURS AVAILABLE

Full range of Resdev colours except White, Light Blue and Magnolia.

## TECHNICAL DATA

Compressive strength to BS6319 Part 2 (N/mm <sup>2</sup> )	- 50.0
Tensile strength to BS2782:320D (N/mm <sup>2</sup> )	- 5.0
Flexural strength to A.S.T.M. D790-84a (N/mm <sup>2</sup> )	- 30.0
Impact 1kg load/tup nose type	- 22cm
Surface spread of flame to BS 476:Part 7	- Class 2

## 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.

NB. Due to the different blends of aggregate used in WR to other Pumadur products, a colour match is not possible if aesthetics are an issue. This will need overcoating with 2 coats of Pumadur T.F.