



# RYETHANE 500 PLUS FLEXIBLE POLYURETHANE FLOORING

## DESCRIPTION

Ryethane 500 Plus is a medium duty liquid applied flexible self levelling coating system providing a seamless finish incorporating lightweight irregular shaped fillers which profile at the surface and produce a slip resistant finish 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, slightly textured. Ryethane 500 Plus is not colour fast and may change colour over time if subjected to UV light.

## Durability

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

## Thickness

Ryethane 500 Plus 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, mild steel, alloys and water resistant plyboard.

## Surface Preparation

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

## Application Conditions

5-30°C; Maximum relative humidity within substrate 75RH.

## Priming

Sound porous surfaces may be primed by a thin/scratch coat application of Ryethane 500 Plus.

Aluminium alloys, zinc, copper, glazing and ceramic surfaces should be primed with Ryepriime DS; please refer to TD003.

Particularly porous or friable surfaces may be primed with a single application of Ryecoat WD clear sealer; please refer to TD013. All priming systems should be allowed to cure to a hard finish prior to application of Ryethane 500 Plus.

## Mixing

Pour and fully drain the contents of the clear brown hardener component into the pigmented resin component and mix thoroughly with a slow speed paddle mixer 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

This product is laid in compliance with BS 8204-6 Type 3. Depending upon film build specified, apply by roller or steel float at the prescribed spreading rate.

## Coverage Rates

	AT 0.5MM	AT 1.0MM
Ryethane 500 Plus	0.78kg/m <sup>2</sup>	1.56kg/m <sup>2</sup>

## SPECIFICATION DETAIL

Ryethane 500 Plus as primer/scratch coat - 0.20kg/m<sup>2</sup>  
Ryethane 500 Plus at 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.



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#### **Cure Schedule @ 20°C**

Pot Life of full unit	45 minutes
Initial film set time	4 hours
Resistant to light traffic	12-16 hours
Resistant to heavy traffic	4-5 days
Full cure/chemical resistant	48 hours

#### **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 TD115.

#### **Colours**

Available in the full range of Ryebrook colours.

#### **TEST DATA**

Elongation at break to BS2782	70%
Hardness Shore 'D'	62
Tensile Strength to BS2782	7N/mm <sup>2</sup>
Tear strength to BS903 die 'C'	33N/mm <sup>2</sup>
Compressive Strength to BS6319	90N/mm <sup>2</sup>
	no failure (85% recovery)
Taber abrasion - dry CS10/100 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 Ryebrook product, please contact our Technical Department on 01293 565500.