

# RYETHANE 500 FLEXIBLE POLYURETHANE FLOORING



## DESCRIPTION

Ryethane 500 is a medium duty liquid applied flexible coating system providing a seamless 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 smooth finish with uniform colour. Ryethane 500 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 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.

Aluminium alloys, zinc, copper, glazing and ceramic surfaces should be primed with Ryeprime 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.

## 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.

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## 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 | 0.78kg/m <sup>2</sup> | 1.56kg/m <sup>2</sup> |

## SPECIFICATION DETAIL

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

## 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.