

2K WATER BASED POLYURETHANE COATING



PRODUCT CODE PU221G PU221S

PRODUCT DATA INFORMATION SHEET

PRODUCT DESCRIPTION

Marmoran Hydrothane PU 221 2K Water Based Polyurethane Coating System is a high performance protective coating for steel, timber, concrete and plaster rendering. Marmoran Hydrothane PU 221 has particular application where a high degree of abrasion resistance is required, e.g. in high traffic areas like hospital corridors etc. Marmoran Hydrothane 221 is ideal to overcoat conventional or textured coatings or as a high performance glaze over Marmoran Specialised Wall Coatings.

FEATURES & BENEFITS

- Excellent impact and abrasion resistance
- Rapid drying properties in both low & high temperatures
- Excellent weather and ultraviolet Resistance
- Resistant to water vapour and carbon dioxide permeation
- Outstanding flexible qualities
- Salt Spray Resistant - suitable for coastal environments
- Solvent Resistant e.g. Alcohols, Hydrocarbons, Petrol
- Does not taint water
- Excellent Chemical Resistance - 10% solutions of following: Hydrochloric, Caustic Soda, Sulphuric & Phosphoric Acids.
- Water based.

All Marmoran Products are tested to National and International Standards by independent laboratories.

USES

- Can be applied over all conventional or textured coatings as a protective sealer.

COLOUR & AVAILABILITY

- Available in a Clear Gloss and Clear Satin.
- Packaged in 1 litre and 5 litre kits.

APPLICATION

- Applied by airless spray, conventional spray (ensure that no moisture is present in air supply) or by a short nap mohair roller.

SURFACE PREPARATION and SPECIFICATION

Proper Surface preparation is crucial to a successful defect free finish. Ensure that all substrates are free of moisture. A moisture content of less than 7% is recommended before application.

New Work: Prepare substrate by removing all loose and friable particles. Stop and fill appropriately. Ensure that the surface is clean, dry and sound. Apply the specified Marmoran Wall Coating. When the Marmoran Coating has fully cured, seal by applying 1 or 2 coats of Marmoran Hydrothane PU 221

- Add hardener to base in a ratio of 2 parts Base to 1 part Activator by volume. Stir well using a flat paddle or a slow speed mechanical mixer. Allow to stand for at least 5 minutes before using to facilitate prepolymerisation. Use up all opened and catalysed containers in one day. Discard any unused catalysed product.

If thinning is necessary for spraying, dilute with water maximum of 1%.

Redecoration: Prepare by removing all loose and flaking paint, dirt, grease and grime. Spot prime exposed substrates appropriately. Proceed as for new work. Proper Surface preparation is crucial to a successful defect free finish. Ensure that all substrates are free of moisture. A moisture content of less than 7% is recommended before application.

PRODUCT DATA

Composition	Poly isocyanate, acrylics polyol emulsions
Solvent Type	Water
%Volume Solids	30% ± 2%
% Mass Solids	30% ± 2%
VOC LEVELS	335g/L 33%
Mixing Ratio	2 Parts Base to 1 part Hardener by Volume.
Drying Times @ 25 deg C, 65% RH (see note 1)	
Surface Dry	2 hours
Hard Dry	12 hours
Over coating Time	12-48 hours
Theoretical Spreading Rates (see note 2)	8-10 m ² / litre / coat depending on substrate and porosity Wet Film Thickness: 125-100µ per coat Dry Film Thickness: 38-30µ per coat

Solvent for Cleaning
Shelf Life and Storage

Apply 1 or 2 coats to new surfaces so as to achieve complete obliteration.

Water

6 - 8 Months in unopened containers.

Store in a cool dry and well ventilated place away from excessive heat or open flame.

Do not allow to freeze.

Note 1: Higher temperatures will accelerate the drying times (approximately halved for every 10 deg C increase)
Lower temperatures will retard the drying times (approximately doubled for every 10 deg C decrease)

Note 2: This figure is indicative, and subject to applicator skill and substrate type and condition.

Actual spread rates must therefore be determined by the Applicator.

TRANSPORT

This product is non hazardous in accordance with Transportation and Classification of Dangerous Goods Act (1996)

HANDLING & SAFETY

This product is water based and non-toxic. Keep out of reach of children. It does contain chemicals that may be irritants to mammalian tissue. Appropriate protective clothing must be worn. Protect eyes and skin from exposure. If the product is being sprayed, ensure adequate ventilation and ensure the use of proper ventilated masks. Wash spillages immediately with water. Do not induce vomiting if swallowed. Consult a physician if irritation of skin persists or if product is ingested. Gather up environmental spillages, and dispose of in accordance with regulations of the local authorities.

DISCLAIMER

All information contained herein is given in good faith, based on our specialised knowledge and experience. We reserve the right to effect changes to product and specification alike in the interest of product development and improving technology.