

Marmoran

The Architects' Choice

HYDROTHANE PU221 GLOSS & SATIN

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.



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 5 litre kits.

SA National Enquiries: 0861 627 266

www.marmoran.co.za

B-BBEE COMPLIANT

© COPYRIGHT 2008:

No part of this document may be reproduced by any means unless express written permission has been granted by MARMORAN (Pty) South Africa.

International enquiries: +27 21 797 4250

Email: info@marmoran.co.za

11.12.2019

Marmoran

The Architects' Choice

HYDROTHANE PU221 GLOSS & SATIN

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 1-2 coats of Marmoran Hydrothane PU 221.

Spread rate: 8-10 m² / litre / coat depending on substrate and porosity.

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
Solids	Volume 30% ± 2% Mass 30% ± 2%
VOC LEVEL	335g/L 33%
Drying Times @ 25° C 65% RH	Surface dry: 2 hours Hard Dry: 12 hours Over coating time: 12-48 hours. Higher temperatures will accelerate the drying times (± halved for every 10 ° C increase) Lower temperatures will retard the drying times (±doubled for every 10 °C decrease)
Typical Spread Rate	8-10 m ² / litre / coat depending on substrate and porosity. Apply 1-2 coats to new surfaces so as to achieve complete obliteration. Wet Film Thickness: 125-100µ per coat. Dry Film Thickness: 38-30µ per coat
Solvent for Cleaning	Water
Shelf Life and Storage	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.
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.