

Marmoran

The Architects' Choice

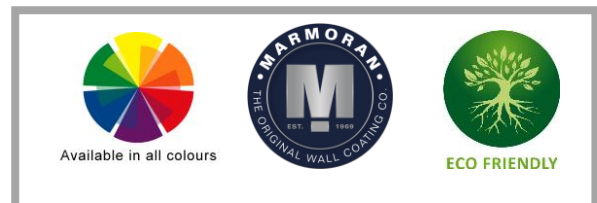
PERMACRETE

A TINTED TROWEL APPLIED TEXTURED RESIN BONDED PLASTER. IT CONTAINS GRADED AGGREGATES TO PRODUCE A RAKED FINISH IN VARIOUS PATTERNS



PRODUCT INFORMATION

- Suitable for interior or exterior use on either new or previously painted walls that have been properly prepared.
- Available in variants of 3mm, 2mm, 1.5mm & 1.0mm.
- Tinted to a wide colour range.
- Accentuate design elements through imaginative paneling and the creation of contrasting bands. We strongly recommend the use tape joints to create paneling and so to avoid dry joints, this is particularly important when applying the product over a large area.
- May be sealed with a glaze to further enhance and protect.
- Eco friendly, water based, LOW VOC LEVEL [18g/L]
- Made to order, supplied ready to use.
- Trowel application.



MARMORAN GUARANTEE

MARMORAN 10 YEAR PRODUCT GUARANTEE is issued on condition that the system is applied by a Marmoran Licensed Applicator in strict accordance to the full specification and is accepted and signed by the relevant parties. Due to the demand for the highest standard of application and finish, it must be applied by a trained applicator that is skilled and experienced.

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

PERMACRETE

PRODUCT CODE AS003

PRODUCT DATA INFORMATION SHEET

TESTED TO NATIONAL & INTERNATIONAL STANDARDS BY THREE INDEPENDENT LABORATORIES.

TEST STANDARDS

ASTM D4828	Easily cleaned up to 10,000 scrubs without exhibiting wear or signs or loss of adhesion
CGRI/R+H	Superior quality pure acrylic resin ensures resistance to dirt pickup
ASTM 4060	Tough & durable with high resistance to abrasion & scuffing
ASTM G53	UV resistant to prevent excessive chalking, colour change, flaking or peeling
ISO 1519	Exhibits outstanding flexible qualities, yet hard and durable to withstand the stresses of natural expansion and contraction of the substrate
ASTM E96	Controlled water vapour permeability allows the walls to "breathe" to maintain resistance to water ingress and prevent spalling, delamination, algae and dirt retention
ISO 2409	Superior adhesion to all suitably primed substrates
SABS 170	Excellent resistance to alkali salts to prevent coating delamination and adhesion
SABS 1586	Ability to withstand high temperatures with no signs of delamination, blistering or loss of adhesion
SABS 146	Excellent impact resistance and tensile strength
ISO 12040	Exceptional weathering, water repellency and ultraviolet resistant properties

USES

- Designed for interior or exterior use as a protective and decorative coating for a wide variety of new or previously coated surfaces that have been suitably prepared and primed. This includes cement plasters, concrete, fibre cement, ceiling boards, off shutter concrete, highly porous surfaces, gypsum, timber and steel.
- It is particularly suitable to accentuate design elements of a structure through imaginative paneling and the creation of contrasting bands.

COLOUR

- Available in a wide colour range.

PACKAGING

- 8, 32 and 300 kg containers

GENERAL CONSIDERATION REGARDING APPLICATION

SITE SURVEY REPORTS

Site Survey Reports and Records are to be completed prior to product application, during the application and on completion of the project so that the relevant documentation is available for processing the Guarantee.

CLIMATIC CONDITIONS

Adequate protection should be provided against rain and sub-zero temperatures for a period of not less than 24 hours after application. The coating should never be applied during adverse weather conditions, or on wet surfaces. Even if the weather seems fit, there may be condensation if the temperature of the substrate is at or below the dew point (temperature at which the atmospheric humidity condenses e.g. as dew) the product should only be applied when the temperature of the substrate is at least 2 deg C above dew point. In hot climates, the coating should be applied during the morning and late afternoon hours and if possible away from direct sunlight. Variations in temperatures will affect drying times.

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

PERMACRETE

APPLICATION CRITERIA

- Please refer to our notes on **BEST PRACTICES FOR SURFACE PREPARATION**.
- **Inspect the substrate:** The plaster substrate must conform to a **smooth and even finish**. This can be achieved with a fine wood float or we recommend a steel float finish. **[This is especially important for the Low Profile 1.0mm Permacrete in order to achieve the desired patterning.]**
- The product must be applied in strict accordance to the Manufacturer's System and Specification.
- Adequate time should be allowed for it to cure [confirm a moisture reading of <15%: this may take from 7-21 days, depending on weather conditions] prior to the application of any specialised, semi-specialised coating or paint.
- **Prepare the substrate** appropriately to ensure that the surface is clean, dry and sound.
- Ensure that the **scaffold** be positioned at a comfortable distance away from the surface so that application technique is not compromised. (400-600mm).
- **Sealing of expansion/control joints:** we recommend the use of sealant compatible with the specified Marmoran product, a suitable Marmoran Primer may then be applied directly over these joints.
- We strongly recommend the use **tape joints** to create paneling and so to **avoid dry joints**.
- **Batch control** it is the responsibility of the contractor to ensure colour consistency. It is recommended that sufficient material to complete the project be ordered where possible to eliminate possible colour variation. Where this is not practical, sufficient material to complete an elevation should be ordered with any excess used as the first coat on the subsequent elevation.
- **Check** spread rates, tools and patterning.
- The product is **supplied ready for use. DO NOT THIN.**

PANEL SIZES AND JOINTING

(Please note this specification is for tape joints only and not for structural joints.)

- **Tape Joints** should ideally create panels of not larger than 20m². If panels are larger, the applicator cannot guarantee consistency in the finish as it becomes increasingly difficult to "keep a wet edge".
- **Standard tape joint specifications:** Instate tape joints in approved colour as per marked up elevations using plumb lines and a builders level. Ensuring that all specifications are strictly adhered to. Apply 1 coat Marmoran RBP or RLP primer, followed by 2 coats of Marmoran Marmoclad pure acrylic in bands of 75mm to approved architectural layout prior to the application of the specified Marmoran topcoat.
- Allow the correct drying time, 12 to 24 hours, of the Marmoclad between coats. Ensure the second coat of Marmoclad has fully cured before covering with the masking tape.
- Apply the correct size masking tape over the cured topcoat of Marmoclad.
- Re-prime either side of the masking tape over the Marmoclad.
- Apply the finishing coat
- After one hour peel off the masking tape carefully and tidy edges

GENERAL NOTES

1. Tape joints are available in standard masking tape sizes: 12mm, 18mm, 24mm, 36mm, 48mm.
2. Tape joints can be instated for aesthetics or to create a feature and to keep panels to a more manageable size. We suggest keeping panels smaller than 20m² but each product has varying properties so we suggest consulting with the Marmoran sales on a project by project bases.

Marmoran

The Architects' Choice

PERMACRETE

APPLICATION METHOD

The system must be applied in strict conformance to the manufacturers' instructions.

- **Apply** 1 even coat of the appropriate **Marmoran Primer** and allow to cure. We recommend the use of a primer such as Marmoran Universal Primer where the substrate is non-porous or dense (i.e. off shutter concrete) followed either by Marmoran RBP Textured Acrylic Primer or Marmoran RLP Textured Acrylic Primer where there is a distinct colour difference between the **Marmoran Permacrete** and the surface to be coated.
* **Note:** when using this product in Natural or Brilliant White, RLP Primer must be used to ensure even obliteration of the substrate.
- **Apply** the **Marmoran Permacrete** (to the specified variant) with a steel trowel and then float with a plastic trowel to match the Approved colour & pattern [vertical or random] of Marmoran Sample Panel.
- **OPTIONAL:** if required apply a **Marmoran Glaze Coat** [Marmoran Universal Glaze (Exterior) or Marmoran Supaglaze (Interior)] to seal and protect the coating. Crosshatch to achieve complete obliteration. Allow for drying time between coats. For further information please refer to the relevant Technical Data Sheet.

SPECIFICATION FOR MARMORAN [1.0, 1.5, 2.0 or 3.0mm] PERMACRETE SYSTEM

NEW WORK

Prepare the substrate appropriately to ensure that the surface is clean, dry and sound.

Inspect the substrate: The plaster substrate must conform to a smooth and even finish. This can be achieved with a fine wood float or we recommend a steel float finish. Adequate time should be allowed for it to cure [confirm a moisture reading of <15%: this may take from 7-21 days, depending on weather conditions] prior to the application

Apply 1 even coat of the appropriate **Marmoran Primer**

Apply the **Marmoran Permacrete System** (to the specified variant) [ASTM E96 Compliant: Controlled Water Vapour Permeability] to match the approved colour & pattern of **Marmoran Sample Panel Reference Number: S/_____**. **If required apply** an even coating of **Marmoran Glaze**.

This Marmoran Coating System Has A 10 Year International Guarantee Underwritten By A Third Party. It is issued on condition that it has been applied by a Marmoran Licenced Applicator in strict accordance to the full specification and is accepted and signed by the relevant parties. Due to the demand for the highest standard of application and finish, it must be applied by a trained applicator that is skilled and experienced.

REDECORATION

Prepare the surface by removing all loose and flaking paint, dirt, grease and grime. Make good all cracks and defects, then repair and prime to match the existing surface. Proceed as for new work.

Marmoran

The Architects' Choice

PERMACRETE

PRODUCT DATA

Composition Inert Pigments, Fillers and additives dispersed in an Acrylic Copolymer Resin.

Solvent Type Water

Solids **Volume** 69% ± 2% **Mass** 83% ± 2%

VOC LEVEL 18g/L [1%] white, pastel & medium colours.

The International GREEN SEAL STANDARD is 150g/L [11.5%] for non-flat coatings.

Drying Times **Surface Dry:** 2 hours **Hard Dry:** 12 hours **Over coating Time:** 12 hours

@ 25 deg C, 65% RH 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)

Theoretical 1.0mm Permacrete 2.5 kg / m²

Spread rate 1.5 mm Permacrete 3.0 kg / m²

Per m² 2.0 mm Permacrete 3.5 kg / m²

3.0 mm Permacrete 4.5 kg / m²

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

Actual spread rates must be determined by the Applicator.

Shelf life & Storage 6 - 8 Months in unopened containers. Store in a cool dry and well ventilated place away from excessive heat or an open flame. Do not allow to freeze.

Transport Nonhazardous 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.