

Marmoran

The Architects' Choice

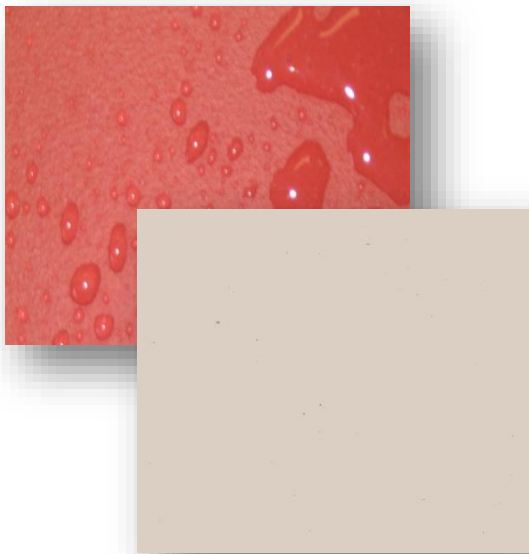
ANTI-BACTERIAL

LOW SHEEN ANTI-BACTERIAL ACRYLIC PAINT

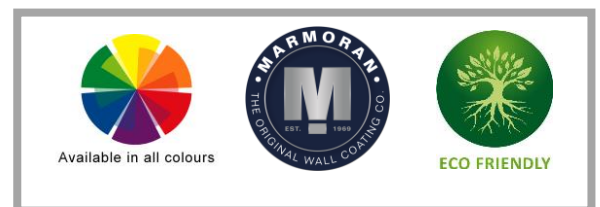


PRODUCT INFORMATION

- Silver ion technology for long lasting Anti-bacterial protection
- Based on a specially formulated hydrophobic acrylic polymer that promotes easy cleaning
- High hiding properties and scrub resistant
- Designed for interior use
- Offers excellent dirt shedding, and water resistance
- Pleasant low sheen
- With a smooth & velvety feel, it is a pleasure to touch
- Eco friendly, water based, LOW VOC LEVEL [23g/L]
- Made to order, supplied ready to use



**TESTED TO NATIONAL & INTERNATIONAL STANDARDS
BY THREE INDEPENDENT LABORATORIES.**



MARMORAN GUARANTEE

MARMORAN 7 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

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11.12.2019

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PRODUCT CODE AB019

PRODUCT DATA INFORMATION SHEET

PRODUCT DESCRIPTION

Marmoran Anti-Bacterial paint is a pure acrylic based paint that provides resistance to growth of bacteria which promotes better hygiene and health. Marmoran Anti-Bacterial paint is special formulated and tested for the protection of the environment from E. coli, Pseudomonas aeruginosa and Staphylococcus Aureus useful for inhibition of asthma, flu and diarrhea (See Actichem Technical Services Report No 382/06-19 at the end of the TDS). It is particularly recommended for use in Healthcare facilities such as hospitals, clinics and other medical facilities, food processing plants, restaurants or any other internal facilities requiring a bactericidal surface such as a kitchen and bathroom surface.

USES

- Designed for interior use as a protective anti-bacterial, decorative and washable coating for a wide variety of new or previously coated surfaces that have been suitably prepared. This includes cement plasters, concrete, Fibre-cement, ceiling boards, off- shutter concrete, highly porous surfaces, gypsum.

FEATURES & BENEFITS

- Specially designed product to offer resistance against 22 different varieties of bacteria including E. coli, Pseudomonas aeruginosa and Staphylococcus Aureus and fungus.
- Offers good flow, hiding power, anti-bacterial and colour retention properties.
- Has very good opacity, outstanding washability and leveling, thereby creating a high-class finish.
- Provides a smooth, durable and washable medium sheen finish.

TEST STANDARD

- **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 E 96** 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 de-lamination and adhesion of salts
- **SABS 1586** Ability to withstand high temperatures with no signs of de-lamination, blistering or loss of adhesion
- **SABS 146** Excellent impact resistance and tensile strength
- **ISO 12040** Exceptional weathering, water repellency and ultraviolet resistant properties

PACKAGING

- 5 & 20L containers

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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 / damp 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.

APPLICATION CRITERIA

- The product must be applied in strict accordance to the Manufacturer's System and Specification.
- Please refer to our notes on **BEST PRACTICES FOR SURFACE PREPARATION**.
- **Inspect the substrate.** The plaster should be a fine wood float finish and adequate time should be allowed for it to cure prior to the application of any specialised, semi-specialised coating or paint. [Use a moisture meter to confirm a reading of <15%, this may take from 7-21 days, depending on weather conditions]
- **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.
- **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 & patterning.
- Supplied **ready for use**, do not thin. **Clean with water**

APPLICATION METHOD

- If required **apply** 1 even coat of the appropriate **Marmoran Primer** or self-prime and allow to cure.
- Apply 2 to 3 coats of **Marmoran Anti-Bacterial** tinted to the required colour by spray, roller or brush as per the approved colour. Allow for drying time between coats.
- **Wet Film Thickness:** 143-111µ per coat **Dry Film Thickness:** 50-39µ per coat
The system must be applied in strict conformance to the manufacturers' instructions.

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SPECIFICATION for MARMORAN ANTI-BACTERIAL

NEW WORK

Inspect the substrate, the plaster should be a fine wood float finish and adequate time should be allowed for it to cure 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.

If required, apply an even coat of the appropriate **Marmoran Primer**. **Apply Marmoran ANTI-BACTERIAL Paint** to match the approved **Marmoran Sample Reference Number: GS/_____**.

A MARMORAN 7 YEAR INTERNATIONAL GUARANTEE UNDERWRITTEN BY A THIRD PARTY 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.

REDECORATION

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

PRODUCT DATA

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

Solvent Type Water

Solids **Volume:** 35% ± 2% **Mass:** 50% ± 2%

VOC LEVEL **23g/L [1.76%]. The GREEN SEAL STANDARD is 50g/L [3.8%] for flat coatings.**

Colours White, pastel & medium colours.

Drying Times **Surface Dry:** 2 hours, **Hard Dry:** 12-16 hours, **Over-coating Time:** 12-24hours
@ 25 deg C, 65% RH 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)

Theoretical 7 – 9 m² L / coat

Spread rate 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 & 6 – 8 Months in unopened containers.

Storage Store in a cool dry and well- ventilated place away from excessive heat or an open flame.
Do not allow to freeze.

Transport 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 specialized knowledge and experience. We reserve the right to effect changes to product and specification alike in the interest of product development and improving technology.

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SEE INDEPENDENT TEST REPORT BELOW

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Commercial-in-Confidence



TECHNICAL SERVICE REPORT NO. 382/06-19

MARMORAN

25 September 2019

Internal Circulation: HN, TSR file

Client:

Marmoran

Test Laboratory:

Technical Service Laboratory
Acti-Chem SA (Pty) Ltd
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TECHNICAL SERVICE REPORT NO: 382/06-19

OBJECTIVES:

1. To screen one sample for microbial contamination.
2. To determine the anti-bacterial efficacy of various samples based on a modified version of the ISO 22196 standard.
3. To determine the resistance of two samples against fungal spoilage.
4. To determine the resistance of two samples against algal spoilage.

CONCLUSION:

MICROBIAL SCREEN

The Microbial Screen (Table 1) revealed that the samples were clear of any initial microbial contamination.

ANTIMICROBIAL ACTIVITY AND EFFICACY (ISO 22196 MODIFIED)

The Antimicrobial Activity and Efficacy Test - (Table 4) based on a modified version of ISO 22196, showed that the sample contained no contamination after 24 hours.

THE RESISTANCE OF MATERIALS TO FUNGI (MODIFIED)

The Resistance of Materials to Fungi – Modified (Table 1) showed that the samples tested were resistant to fungal spoilage under ideal laboratory conditions after 7 days incubation.

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THE RESISTANCE OF MATERIALS TO FUNGI

The Resistance of Materials to Fungi – Modified (Table 2) showed that the samples tested were resistant to fungal spoilage under ideal laboratory conditions after 28 days incubation.

DRY FILM ALGAL (PETRI) RESISTANCE TEST

The Dry Film Algal (Petri) resistance test (Table 3) showed that the samples were resistant to algal spoilage after 30+ days

Note:

This evaluation is comparative and results will vary between evaluations with variable factors such as inoculum concentration and contact time.

Asisipo Fodo
(Microbiologist)

Kratisha Soodhin
(Technical Manager)

Please note that unless otherwise stated, the conclusions and any recommendations, either made or implied, are based on information drawn from examination of the samples identified in this report only. Since these may be influenced by, for example, infection level variations in raw materials, stored component solutions and manufacturing equipment, it is recommended that some appropriate monitoring of microbiological properties be carried out.

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