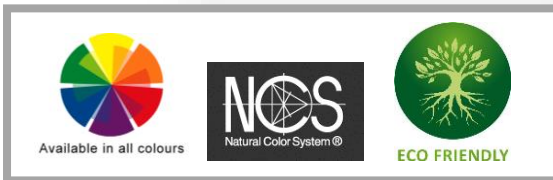
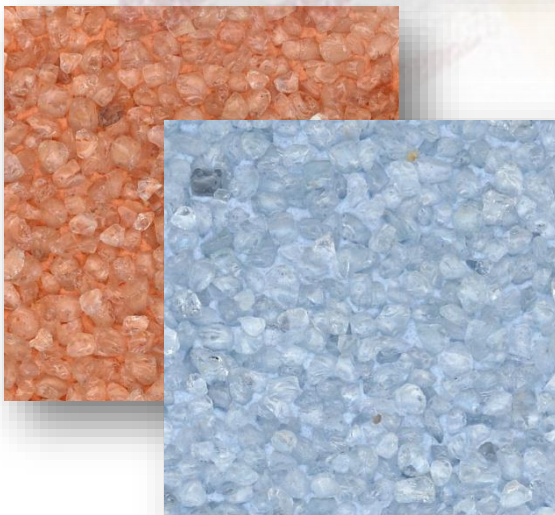


A UNIQUE RETRO REFLECTIVE COATING



PRODUCT INFORMATION

- Suitable for interior or exterior use on either new or previously painted walls that have been properly prepared.
- High build coating system of some 3000 microns total dry coating thickness. Covers surface imperfections, enabling use over irregular surfaces.
- Available in a wide colour range which is imparted by the colour of the background plaster. Naturally, the reflection and refraction of light off the angular facets of the glass chips affect the perception of the final colour.
- **Due to the nature of the glass chip, size may vary between 2.0mm to 3.0mm and small impurities occur from time to time, as this is beyond our control, Marmoran cannot accept responsibility thereof.**
- 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.
- Sealed with a glaze to further enhance and protect.
- Eco friendly, water based, LOW VOC LEVEL.
- Made to order, supplied ready to use. Trowel application.



UNIQUE INTERNATIONAL GUARANTEE

MARMORAN 10 YEAR INTERNATIONAL GUARANTEE UNDERWRITTEN BY A THIRD PARTY is issued on condition that the system is 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.

PRODUCT CODE AS017

PRODUCT DATA INFORMATION SHEET

PRODUCT DESCRIPTION

Marmoran Glassguard is a superlative new generation coating system with unique retro reflective properties. It combines the impervious characteristics of crystalline amorphous silicon glass, with the adhesive properties of Marmoran Glassguard Background Plaster to produce a coating system of unsurpassed adhesion, durability and quality. This is achieved by embedding Marmoran Glassguard Crystals into the Marmoran Glassguard Background Plaster. The final colour of the Coating is borne by the Background Plaster offering an infinite range of colour selection. Once cured the coating is sealed with a Marmoran Glaze to protect and enhance.

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 on 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 and gypsum. It is particularly suitable to accentuate design elements of a structure through imaginative paneling and the creation of contrasting bands. **Caution: Due to the sometimes sharp facets of the glass crystals we recommend that you avoid using this product in high traffic areas as this could result in an accidental skin abrasion.** The Marmoran Glassguard Crystals are also available tumbled.

COLOUR

- Available in a wide colour range

PACKAGING

- Background Plaster is packed in 8, 32 and 300 kg containers
- Glassguard Crystals: are supplied in 40 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.

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 metre 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.
- 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**.
- **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.
- The background plaster is **supplied ready for use**. DO NOT THIN.
- **Check spread rates, tools & patterning. Clean with water**

APPLICATION METHOD

The Background Plaster is applied using a steel trowel, and metered to constant coating thickness. The Crystals are cast into the wet Background Plaster and lightly rolled to even embedment.

Inspect the substrate accordingly. 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.

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 by Marmoran RBP Textured Acrylic Primer.

Apply the Marmoran Glassguard Background Plaster by steel trowel, metre to a constant coating thickness, and while wet, cast in the **Marmoran Crushed Crystals**. Lightly roll the Crystals into the Background Plaster to maximize embedment. Allow the coating to cure.

Recommended: Apply 1 or 2 coats of Marmoran Universal Glaze [for Interior] OR 2 or 3 coats of **Marmoran Glaze 15** [for Exterior] to seal and protect the coating. Crosshatch so as to achieve obliteration. Refer to the relevant product data sheets.

SPECIFICATION FOR MARMORAN GLASSGUARD SYSTEM

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.

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

Apply the Marmoran Glassguard to match the approved **Marmoran Sample Reference Number: S/ _____**.

If required apply an even coating of **Marmoran Glaze**

This Marmoran Coating System Has 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 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.

PRODUCT DATA

Composition	Inert Pigments, Marble Aggregate & Fillers dispersed in a Pure Acrylic Resin Crystals Crystalline Silicon Chips	
Solvent Type	Water	
% Solids	Volume 69% ± 2%	Mass 84% ± 2%
VOC LEVEL	18g/L 1.0%	
Drying Times	Surface Dry: 2 hours Hard Dry: 12 hours Over coating Time: 24 hours	
@ 25 deg C, 65% RH	Higher temperatures will accelerate the drying times (approximately halved for every 10 °C increase) Lower temperatures will retard the drying times (approximately halved for every 10 °C decrease)	
Theoretical Spread rate	2 mm Background Plaster 3 Kg/m ²	2-3mm Crushed Crystals 5 Kg/m ²
	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 Handling & Safety This product is non hazardous in accordance with transportation and classification of dangerous goods act (1996)
 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 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.