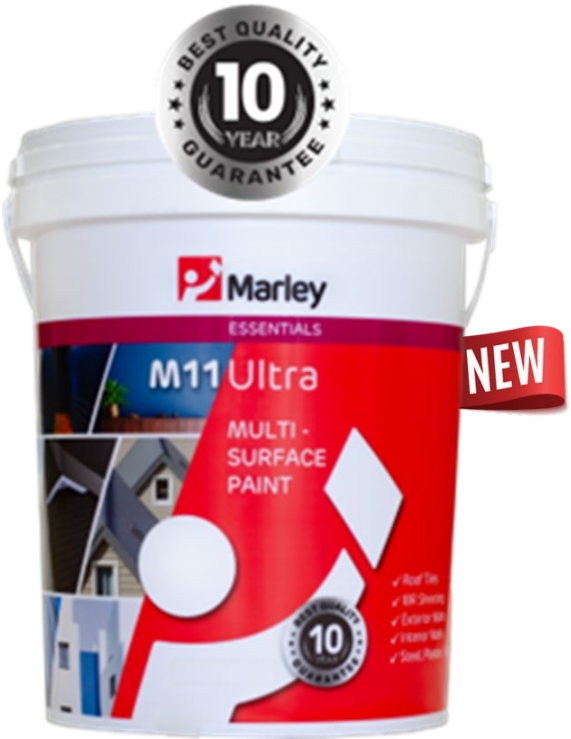
Marley M11 Ultra Roof & Wall Paint

This highly durable roof coating with a 10-year quality guarantee, ensures all-round weather protection. Its enhanced Acrylic Formulation delivers excellent UV Resistance, flexibility and adhesion for long lasting sealed protection.



SPREAD RATE:	6-8m² per litre
APPLICATION:	Brush, Roller, Spray
CLEANING:	Water
DRYING:	+ - 4 Hours
COATS:	2 *White 3

ADVANTAGES:

> Acrylic Formulation – Highly durable roof & wall formulation with a 10-year guarantee

> All weather & UV Resistant – Colour fast, dirt shedding and impervious to water that keeps your roof looking better for longer

> Excellent Adhesion & Flexibility – Paint film remains intact during expansion and contraction for long lasting sealed protection

> Multiple Application Methods – Ready to use for airless spray, brush or roller application. No thinning required!

COLOURS:

CLASSIC COLOUR RANGE:

AMBER, BROWN, EMERALD GREEN, MIDNIGHT BLACK, MORELAND GREEN, RED, SLATE, TERRACOTTA, MISTY GREY, WHITE.

STEEL SHEETING RANGE:

STEEL DOVE, STEEL DOLPHIN, STEEL CHARCOAL

TRENDY RANGE:

ASOLUTE GREYS (AG): Scadinavian Frost, Arctic Stallion, Misty Grey

WARM GREYS (WG): Cloudy Morning, Grey Skies, Stormy Weather

BROWN GREYS (BG): Greige Stone, Faded Driftwood, Rock Pool

GREEN GREYS (GG): Faded Moss, Fynbos Dream, Otter Trail

COOL BROWNS (CB): Beach Life, Salted Lichen, Boardwalk

WARM BROWN (WB): Worn Canvas, Wild Mushroom, Riverbed

WARM CARAMEL (WC): Desert Sands, Namib Dune, Nyala

TINT BASES:

PASTEL BASE, DEEP BASE & ULTRA DEEP BASE – Ideally used with Marley ICC / Largo tint formulations, though can be used to tint any ICC colour formulation. Contact Marley for closest matching formulations advice.

PACKAGING INFORMATION:

Please note!

> Measurements and weights below are approximate values and may vary slightly from batch to batch!

Pack sizes:	20L, 5L
Pack dimensions:	20L (base diameter = 263mm, pail only height = 375mm, pail with lid = 377mm)
	5L (base diameter = 174mm, pail only height = 238mm, pail with lid = 239mm)
Weight per pack:	20L = 23.7kg, 5L = 6kg
Pallet only size & weight:	1,2m x 1m 0.15m (23kg)
	(Two-way entry, suitable for moving with pallet jack)
Pallet configuration:	24 x 20L per pallet (566.80kg excluding pallet weight)
	120 x 5L per pallet (720kg excluding pallet weight)

PRODUCT INFORMATION:

Appearance:	Low Sheen
Resin Base:	Acrylic resin emulsion
Film Thickness:	30-40 microns per coat
Drying Time:	Touch dry: + - 1 hour
	Hard dry/recoating: + - 4 hours
Spreading Rate:	Approx. 6-8m² per litre.
	Please note! Spreading rate varies with porosity, type of substrate and roof profile.
	For uncoated new surfaces we recommend 5-7 m² per litre for the first coat and 7-9 m² per litre for subsequent coats. The latter applies to sealed and previously painted substrates as well.
Packaging sizes:	This product is available in paint pails of 5 and 20 litres.

APPLICATION INFORMATION

> To ensure colour uniformity please check paint batch numbers. We recommend purchasing colours from the same batch, if this is not possible, mix different paint batches with one another in a separate clean container. Batch numbers are allocated at the back of the paint pail as an applied sticker with a barcode.

> Stir well before use! Preferably with a flat paddle.

> Application Methods include brush, roller, or spray application. For airless spray application, at 110-120Ku we suggest a spray tip of 21 or 23 thou Tip and a pressure setting of about 3000 PSI- circa 200 Bar. Should you find that the product does not spray easily increase the Tip size and pressure.

> Thinning – this product is ready to use un-thinned! Thinning is not recommended, except on absorbent surfaces. Please note that thinning will reduce the opacity (hiding power) of this paint. Where thinning is required, the first coat may be thinned up to 10% with water.

> Drying Time - Touch dry 60 minutes. Allow to dry 3-4 hours before recoating. Please note, it is recommended to extended drying times during cold, wet, or humid conditions.

> 2 Coats of Marley M11 Ultra must be applied as a minimum requirement to achieve a closed film and solid colour. For the colour "white" – 3 coats are required to achieve a closed film and solid colour.

> Clean paint application tools and equipment immediately after use - remove as much product as possible, and then clean with tap water.

> Do not apply before 09:00 and after 16:00 in the winter.

> Do not apply exterior if it looks like rain will occur within 4-6 hours of application.

> Coats Required - apply two to three finishing coats to new and previously painted surfaces.

> The quantity of paint required to coat a roof, can be obtained by measuring the floor area of the house covered by the roof, including the overhang. Additional allowance of + 30% must be made for the pitch of the roof, plus 30% for the profile (shape of roof tiles, corrugations etc.). Divide the total area by the spreading rate of the paint to give an indication of the paint requirements per coat. Make allowance for thinning of the primer coat.

GENERAL SURFACE PREPARATION:

MARLEY PAINTS DO NOT RECOMMEND RE-PAINTING BEFORE ALL CAUSES OF MOISTURE INGRESS HAVE BEEN ESTABLISHED AND CURED BY A REPUTABLE DAMP PROOFING SPECIALIST!

Surface preparation plays a very important part in the performance of a paint system. Before painting, all surfaces must be clean and free from oil, grease, algae, and any alkaline residue. This will ensure adhesion to the substrate and further prevent delaminating of the coating over a period of time.

Further care should be taken on areas where evidence of rising damp or any damp related problems are detected. These areas should be inspected by a qualified professional in this field, assessed and a remedial solution given thereof. These problem areas usually require extensive refurbishment, re-plastering, tanking and in some instances even structural changes.

Any paint failures that is a result of insufficient waterproofing will not be considered!

All V-Joints and/or Expansion Joints need to be inspected and remediated before painting can commence. All weep holes need to be inspected and repaired (where applicable) before painting can commence.

Crosshatch tests should be done on areas where the adhesion of paint is suspect.

Feather edges of tightly bonded paint with rough to medium grit paper to smooth them off and provide an even surface without repair witnesses.

Inter-coat washing is essential to ensure surfaces are free of contaminants, specifically salt deposits, before painting can commence.

Building design contributes to the majority of these problems. Omitting the use of gutters and down pipes, plastering into ground level, inadequate or no D.P.C., gardens and grass directly next to foundations, inadequate water flow regulation, parapet walls, type of plaster and roof overhang, to name but a few.

Moisture testing should be conducted before painting using an ultrasonic moisture detection gauge, such as the Protimeter.

MKII, which is calibrated 0 -100%.

Moisture test guide: 0 -15% - acceptable, 16 – 25% - above normal, 26 – 35% - very high moisture, above 36% - excessive.

The correct choice of a primer and surface preparation is the cornerstone of a successful paint specification.

PRIMER USE:

The primer plays a very important part for a long-lasting paint system. The purpose of a primer should be to adhere effectively to the surface on which it is applied, and to improve the adhesion of subsequent paint coats, especially on chalky substrates, therefore surfaces exhibiting excessive chalkiness, requires a full coat of primer to aid adhesion.

In addition, especially on the exterior, it should provide waterproofing or limit the rate of water vapour passing through it, in order to prevent the formation of efflorescence and fungal growth.

It also helps to build up the paint film thickness, which is of paramount importance for long term durability.

DRY FILM THICKNESS AND THE PAINT SYSTEM

The topcoat seals and protects the surface, imparts a finish, adds to the durability of the paint system, and provides the desired decorative effect.

It also adds to the thickness of the paint film (D.F.T.).

The topcoat should be formulated to withstand the particular environmental conditions to which it will be exposed.

A topcoat for exterior use should withstand all the weathering elements of the area concerned, such as wind, rain, solar radiation, changes in temperature, humidity, and atmospheric fallout. It could have bridging capabilities, for hairline cracks, superior washability and stain resistance or consist of a fibre filled compound for added waterproofing capability.

It is interesting to note that under normal conditions, a coating D.F.T. reduces with approximately 5 microns per year due to U.V. radiation. It is therefore imperative that D.F.T. testing be done during all stages of the refurbishing project, ensuring that a sufficient paint film is applied to outlast the time of the Warranty.

It is important to realise that, depending on paint quality, a slightly higher initial cost per square meter of paint, would be more than offset by a reduction in maintenance costs, by the longevity of the paint coating.

Use only products of reputable suppliers. A good guideline would always be the I.S.O. conformation or S.A.B.S. mark. Affiliation to S.A.P.M.A. and similar umbrella organisations are a prerequisite.

APPLICATION CONDITIONS:

One frequent cause of coating failure is application under unsuitable weather conditions. Exposure of wet or uncured paint films to rain, fog or dew will have a damaging effect both in the inter-coat adhesion, and the ultimate performance of this system. Extremely hot conditions on the other hand, could cause wet paint to reach boiling point, resulting in forced evaporation of the solvents, meant to build the paint film.

It is therefore extremely important to apply paint under good application conditions with temperatures between 10 – 30 degrees Celsius.

All coating work should be done when conditions are favourable, and with knowledge that the conditions will remain so during the specified drying period.

Inter-coat washing is essential for all coastal projects. When in close proximity to the ocean, it is important to ensure surfaces are free of contaminants, specifically salt deposits, before painting can commence.

PREVIOUSLY PAINTED SURFACES:

> Make sure old paint coatings are firm and solid.

> Remove all loose, flaking, and bubbling paint.

> Remove all dust, grease, foreign material, fungal and algae growth. Allow to dry.

> General cleaning: Dilute Marley General Purpose Cleaner with water 1:5. The solution must be worked well into the surface being cleaned, allow the solution to penetrate and soften any deposits. Rinse surface thoroughly with water, until water break-free film is achieved. In the event of heavy deposits or a water break-free film is not achieved, a repeat of the application might be necessary.

> If moss or fungal growth is evident: After having cleaned the substrate mechanically and if moss and fungal growth is evident, remove fungal growth by applying 1 part of Marley Fungal wash to 10 parts water. In cases of heavily infested substrates an additional treatment prior to mechanical cleaning is recommended, this will prevent the disturbance and distribution of dry algal and fungal spores. Apply evenly across the complete surface, taking care to avoid areas of low concentration where algal or fungal spores may redevelop. After all fungus, algae and moss have been removed, rinse the surface clean ensuring that all of the fungal wash has been washed of the surface.

> If surfaces remain powdery or friable, seal with Bonding Liquid (walls & concrete roof tiles) or Plaster Primer (walls), followed by two to three coats of Marley Premium M11 Ultra.

> If previously painted with solvent / oil-based paint: Glossy old surfaces must first be sanded to matt finish to improve adhesion. Remove all loose dust after sanding. On

cleaned surface: Apply 1 or 2 coats Marley Universal Undercoat. Apply at 9 - 10 square meter per litre and allow for 2 hours recoating (if 2 coats are applied) and allow primer system to dry for 15 -16 hours.

> Finish with 2 to 3 coats Marley M11 Ultra at 6- 8 squares per litre, applied to a minimum total dry film thickness of 70 microns. Allow for 2 hours recoating and allow full system to dry for 4 hours.

RUSTED METAL PREVIOUSLY PAINTED:

> Remove any rust and loose flaking paint by means of wire brush, scraping, sandpaper or abrasive blasting. If previously painted surface is in poor condition, strip and treat as new work.

> Follow general cleaning protocol as per "PREVIOUSLY PAINTED SURFACES".

> If previously painted with water-based roof paint: On cleaned exposed galvanised iron, Apply 1 or 2 coats Marley Water-based Zinc Phosphate Primer. Apply at 6-7 square meter per litre and allow for 2 hours recoating (if 2 coats are applied) and allow primer system to dry for 4 hours.

> If previously painted with solvent / oil based paint: Glossy old surfaces must first be sanded to matt finish to improve adhesion. Remove all loose dust after sanding. On cleaned surface: After raw galvanised surfaces have been spot primed. Apply 1 or 2 coats Marley Universal Undercoat. Apply at 9 - 10 square meter per litre and allow for 2 hours recoating (if 2 coats are applied) and allow primer system to dry for 15 -16 hours.

> Finish with 2 to 3 coats Marley M11 Ultra at 6- 8 squares per litre, applied to a minimum total dry film thickness of 70 microns. Allow for 2 hours recoating and allow full system to dry for 4 hours.

NEW METAL:

> Degrease surfaces with a Galvanized Iron Cleaner to remove the manufacturer's grease protective layer. This process is repeated until the surface is water break free.

> Rinse well with potable water.

> Prime the clean degreased metal. Apply 1 or 2 coats Marley Water-based Zinc Phosphate Primer. Apply at 6-7 square meter per litre and allow for 2 hours recoating (if 2 coats are applied) and allow primer system to dry for 4 hours.

> Finish with 2 to 3 coats Marley M11 Ultra at 6- 8 squares per litre, applied to a minimum total dry film thickness of 70 microns. Allow for 2 hours recoating and allow full system to dry for 4 hours.

WOOD:

> Lightly Sand, wipe off dust.

> Prime With Marley Universal/GP Undercoat (previously painted with solvent-based paint) or Marley Pink Wood Primer (uncoated raw wood)

> Finish with 2 to 3 coats Marley M11 Ultra at 6- 8 squares per litre, applied to a minimum total dry film thickness of 70 microns. Allow for 2 hours recoating and allow full system to dry for 4 hours.

GENERAL WALLS: UNCOATED CEMENT PLASTER / CONCRETE WALL SURFACES:

* Excludes floors! Marley M11 Ultra is not suitable to use on any flooring!

* Excludes parapets, flower beds, boundary walls! Please contact Marley for specifications regarding these surfaces.

> Remove dust, foreign material, fungal and algae growth as per cleaning protocols listed under "PREVIOUSLY PAINTED SURFACES".

> Fill all visible cracks and seal with Marley Water-Based Plaster Primer.

> Finish with 2 to 3 coats Marley M11 Ultra at 6- 8 squares per litre, applied to a minimum total dry film thickness of 70 microns. Allow for 2 hours recoating and allow full system to dry for 4 hours.

FIBRE CEMENT SURFACES (UNCOATED, WEATHERED OR NEW):

> Remove dust, foreign material, fungal and algae growth as per cleaning protocols listed under "PREVIOUSLY PAINTED SURFACES".

> If friable or powdery, seal with Marley Bonding liquid.

> Finish with 2 to 3 coats Marley M11 Ultra at 6- 8 squares per litre, applied to a minimum total dry film thickness of 70 microns. Allow for 2 hours recoating and allow full system to dry for 4 hours.

CONCRETE ROOF TILES (UNCOATED, WEATHERED OR NEW):

> Remove dust, foreign material, fungal and algae growth as per cleaning protocols listed under "PREVIOUSLY PAINTED SURFACES".

> If friable or powdery, seal with Marley Bonding liquid.

> Finish with 2 to 3 coats Marley M11 Ultra at 6- 8 squares per litre, applied to a minimum total dry film thickness of 70 microns. Allow for 2 hours recoating and allow full system to dry for 4 hours.

ADDITIONAL INFORMATION

> Storage Conditions - store under cool dry conditions away from direct sunlight, heat and extreme cold.

> Disclaimers - colour references are as accurate as printing will allow.

Please refer to the in-store colour displays for an accurate representation of the colour. *Among others, the following factors may affect final colour appearance: product sheen and texture, colour and light reflections, application, surface texture and preparation. For best colour and sheen consistency, it is advisable to use containers of the same batch number, or to mix different batches together in a large clean container. For walls - to finish in a corner before starting a new container.

GUARANTEE

Marley Roofing offers a 10-year product guarantee on Marley M11 Ultra. To register your guarantee, simply call Marley Roofing's Technical Paint Department within 30 days of purchase or send us your guarantee application via our website. Basic requirements to register your guarantee include supplying us with your contact details, the site details, purchase details, applicator's details (person or contractor who painted), batch number/s and related products used. Your successful application will receive a Guarantee Reference Number that you should record and keep in a safe place, together with your purchase slip for future reference.

For more information as well as terms and conditions of the guarantee, please visit www.marleyroofing.co.za or contact Marley Roofing's Paint Technical Helpline 076 102 3432.

STANDARD DISCLAIMER PERTAINING TO THIS TECHNICAL DATASHEET (TDS)

The recommendations contained herein are given in good faith and meant to guide the specifier or user in accordance with good painting practices. They are gained from our tests and experiences and are believed to be accurate and reliable. No warranty/guarantee is implied by the recommendations contained herein since the conditions of use; application method, substrate and cleanliness of the substrate are beyond Marley Roofing's control.

Important Note: Technology may change with time, necessitating changes to this Technical Data Sheet (TDS).

It is the responsibility of the user to ensure that the latest TDS is being used for reference. Marley Roofing Technical Data Sheets are available on our website www.marleyroofing.co.za or please contact us at 010 600 0284.

Email info@marley.co.za

Marley SA (Pty) Ltd trading as Marley Roofing, is a member of the Ubora Group, the industrial division of Kutana Group of Companies.

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