GRAPHENSTONE®

Technical Data Sheet

AmbientPro - Primer Colour Blocker

Product Description:	**AmbientPro - Primer Colour Blocker** is a water based natural mineral primer developed using a graphene nanotechnology polymer to provide strength, flexibility and durability. Formulated for interior applications, **AmbientPro - Primer Colour Blocker** is an undercoat that will provide stability to substrates of differing absorption rates such as plaster and plaster board, whilst providing top coat coverage on dark, previously painted surfaces.
Features:	• Ultra low VOC and no toxic emissions • Excellent adhesion • Excellent strength & flexibility • Breathable • Exceeds requirements for Green Building and Passive House projects • Suitable for all Graphenstone Interior range products
Safety Precautions:	Observe all Occupation Health and Safety (OH&S) precautions. Refer to the relevant Safety Data Sheets (SDS) for product safety related information. For further information and support: **Nutech Paint 03 9770 3000** www.nutechpaint.com.au **Usage warnings:** • Alkaline product - protect skin and eyes. • Apply with good ventilation, do not inhale product. • Keep out of reach of children.
Provisions:	***Product is supplied as Ready for Use (RFU)***. Refer to the mixing/ thinning instructions of this TDS and observe storage and handling conditions.
Chemical Type:	Water based graphene & mineral emulsion
Product Attributes:	pH: 9.5 ±1 Total Volatile Organic Compounds (TVOC): <1 g/Lt Emission rating: Exceeds GBCA Green Star IEQ13 compliance (primer, undercoat & prep. coat) Solubility: In Water Minimum Film Forming Temperature: 10°C
Typical Applications:	Domestic & Multi Density Residential, Industrial and Commercial uses where Green Building and Passive House criteria is required, to provide excellent colour blocking, opacity and porosity stabilisation to plasterboard and pre painted interior walls and ceilings.
Substrate Recommendations:	**AmbientPro - Primer Colour Blocker** is suitable for plaster, gypsum, unpainted wallpaper, timber, old paints, masonry, brick and other similar building substrates.
Coverage / Spread Rate:	**10 - 16m²/L** per coat. Note: Coverage will depend on the porosity and roughness of the surface. To maximise performance do not over spread.

Test Patch:	Conduct a small test patch in an inconspicuous area to ensure adequate product performance, substrate porosity and provide an indication of the time required to complete project.
Packaging:	5L Pail and 10L Pail
Storage:	Cool, dry location. Keep from freezing and avoid contact with direct sunlight and heat.
Shelf life:	Stored 12 months @ 25°C Product may thicken without losing properties.
Mixing/ Thinning:	**AmbientPro - Primer Colour Blocker** is supplied Ready for Use (RFU). If dilution is required observe the following; **Maximum dilution:** 10% by volume - clean fresh water. **Prior to Commencement:** Stir thoroughly prior to use. DO NOT agitate
Application:	Brush, Roller, Airless Spray NOTE: Refer Application guidelines for recommendations
Drying Time	Dry times based on ambient conditions @ 25°C and 60% relative humidity.
Touch Dry:	**30 Minutes**
Recoat:	**2 – 4 Hours**
Total Dry:	**24 hours**
Note:	Dry times will be increased in lower temperatures or higher humidity.
Hard Cure:	N/A

SUBSTRATE CONSIDERATIONS:

Conditions of the substrate: The substrate must be dry, firm, well-adhered and free from any impurities that may hinder the product from setting fully.
Do not apply to surfaces in constant contact with water.

Mineral based substrate: Concrete/ render must have been allowed to cure for a minimum 28 days.

Preparation of the substrate: If the substrate presents algae, mould, fungi and / or other impurities, it is recommended to thoroughly clean with specific products for this purpose.

Substrates Note: Must be resistant to high alkalinity.

Salt deposits: Brush and apply Neutralysal.

High moisture level substrates: 24 hours before top coat application, apply StopWater
diluted 1:1 with water

Blistered, and flaking paint: Remove all damaged and loose paint from the surface.
Fill any irregularities and sand smooth in accordance with the appropriate filler recommendations.

Surface cracks: the recommendation depends on the width of the crack:
1-3 mm Apply filler (with a fiberglass mesh if >1 mm).
3-10 mm V groove and apply filler with mesh.
>10 mm Requires architectural assessment.

Deteriorated render: Remove all damaged and loose render from the surface.
Repair rendered areas as required.

If the substrate presents structural cracks, moisture by capillarity, condensation or filtration, etc.; it is necessary to resolve the structural problems first. Architectural and Engineering advice should be sought prior to commencement of works.

PREPARATION:

- **Old paint**: Lightly sand (P220 Grit or scourer pad) and clean surfaces.
- **Pre-painted deep toned colours:** For greater coverage apply AmbientPro Primer Colour Blocker.

Masking: Mask off or apply drop sheets to all areas not to be coated, to ensure no spatter or overspray.
If masking is required on freshly painted surfaces, allow first coat to dry for minimum 36 hours

APPLICATION INSTRUCTIONS:

Ambient Conditions:
The work temperature must be between 10°C and 30°C. Do not apply in direct sunlight.

Brush Roller Application:
- **Roller: 12 – 18mm nap**
- Paint in sections (wall by wall) starting with cutting in borders
- Do not overload brushes and rollers
- Apply evenly in a V pattern
- Lightly back roll to ensure a consistent, even finish

Note: Excessive build or failure to observe dry times between coats may generate micro-cracks.

Airless spray application:
- **Tip size:** 0.017 – 0.21 Thou.
- **Minimum machine power:** 3300 psi
- **Filter:** Coarse
- Apply 2 – 3 coats in an even and consistent manner.

Complementary products: It is recommended to use the Graphenstone product range of primers and sealers for application, repair and/or finishing as required.
Please, refer to the relevant Technical Data Sheets or Contact Nutech Paint for further assistance.

Do not inter-mix with any other products as specific properties may change.

Clean Up:	Protecting Our Environment is important to Nutech Paint: Clean up with clean warm water. Do not pour leftover paint down drains or in rubbish bins. Unwanted paint should be kept in a sealed container and then disposed of via special waste collection services. Empty paint containers should be left open in a well ventilated area to dry out. Dispose of empty paint containers in accordance with local authority's guidelines. Always check with your local council first.
First Aid:	**SEEK IMMEDIATE MEDICAL ATTENTION**. Refer to the appropriate ***Nutech Safety Data Sheet*** (SDS) for further information. For medical emergencies only, call: 000 • In case of eye contact, flush thoroughly with water for at least 15 minutes. • In case of skin contact, wash affected areas with soap and water. If irritation persists. • Remove and wash contaminated clothing. • If inhalation causes physical discomfort, remove to fresh air. • If discomfort persists, any breathing difficulty occurs or if swallowed, seek medical advice.
Warranty	Nutech warrants its products to be free from defects in material and workmanship. Nutech's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Nutech's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to Nutech in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify Nutech of such non-conformance as required herein shall bar Buyer from recovery under this Warranty. Nutech makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall Nutech be liable for consequential or incidental damages. Any recommendation or suggestion relating to the use of the products made by Nutech, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.
Limitation of Liability	Nutech's liability on any claim of any kind, including claims based upon Nutech's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which gives rise to the claim. In no event shall Nutech be liable for consequential or incidental damages.
Disclaimer	The information given on this data sheet is based on many years' experience and is correct to the best of our knowledge. However, since the use of our product, surface conditions, weather and a number of other factors are completely beyond our control, we can only be responsible for the quality of our product at the time of dispatch. For more information please contact our Company. As this information is of a general nature, we cannot assume any responsibility in individual cases.' The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

Nutech Paint
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