



JM Towers
Ernakulam

Govind's Madhavam
Thrissur

Skyline Emerald
Ernakulam

RDS Nedungadan Residency
Ernakulam

Mather White Waters
Ernakulam

Repoter Channel HQ
Ernakulam

Mother Hospital
Thrissur

**OCTA
GREEN NANO**

Octagreen Nano Products India Pvt. Ltd.

48/2138, A, A1, A2, Shakthi Enclave, Perandoor Road, Elamakkara P.O, Kochi 682 026 Tel: 0484 2539439
Email: mail@octagreennano.com www.octagreennano.com



100%
Environment
friendly

ultralast
ECOATING SYSTEM



Rain or shine,
ultralast really lasts

**OCTA
GREEN NANO**

www.octagreennano.com



Green paints. The best way to save energy and protect the environment.



Ultralast™ surface coatings are the result of over 30 years long R&D efforts. This resulted in the creation of coating products which provide lasting protection to any surface. The Ultralast™ range has the ability to meet demanding industrial performance, while posing no threat to the environment.

ultralast™ provides a healthy, durable and cost effective alternative to conventional paints and painting products. Exhaustive quality tests have been conducted in the renowned UK Paint Research Association, have established the superiority of ultralast over conventional paints. The Swiss Environmental Institute, one of the world's most stringent adjudicators of environmental excellence, accepted ultralast for tax-free status - the only coating product in the world ever to achieve this distinction. Precisely why, world over, architects, developers, builders and painting professionals with demanding attitude towards tough, lasting performance and absolute eco-friendliness are choosing ultralast™.

Why choose ultralast™?

We lead the eco friendly paints market for over 30 years.

Our green products have been through rigorous testing and evaluation

Although these eco products surpass our competitors in quality, our prices are still very competitive and are often cheaper

Tests

Available test results from the Paint Research Association in the United Kingdom of the Ultralast paint product include the following (as stipulated for national and international environmental and quality standards for paint products)

Paint characteristic	Standard test procedure	Result
VOC content	ASTM D-3960 (US EPA)	Zero
Combustibility	BS 3900: Part A11	Not combustible
Density	ISO 2811-1	1.179g/ml
Flash point	BS EN 456	No flash occurred
Volume solids	ISO 3251	40.7%
Non-volatile content	ISO 3251	50%
Resistance to humidity	BS 3900: Part F2	No signs of breakdown
Prohesion	ASTM G85 Annex A5	No signs of breakdown
Resistance to salt spray	ISO 7253	No signs of breakdown
Resistance to sulphur dioxide	ISO 3231	No signs of breakdown
Artificial weathering	ISO 11507	No chalking, slight change of colour and sheen
Assessment of light fastness	PRA in-house method	Barely visible change in colour, no other effect
Temperature and humidity exposure	PRA in-house method	Very slight water spotting, no change in appearance or blistering
Resistance to temperature change	PRA in-house method	No change in appearance
Resistance to water immersion	ISO 2812-1	No signs of breakdown
Abrasion resistance	ISO 7784-2	Less than 1% loss after 1,000 cycles
Adhesion	ISO 2409	Classification 0 – no failure
Assessment of blistering, chalking, cracking, flaking and rusting	ISO 4628 1-6	As listed above
Chip resistance	BS AU 148 Part 15	Very good – Grade 2
Drying time (surface and through)	ISO 1517 and 9117	Surface dry in 40 minutes, through dry in 45 minutes on metal
Film thickness	ISO 2808	128µm (primer plus two coats of paint)
Flexibility	ISO 6860	Excellent –no sign of cracking or removal
Gloss	ISO 2813	9 (between “silk” and “matte”)
Hardness	ISO 1518	No penetration up to 3.4kg on a 125µm substrate
Impact resistance	ISO 6272	No cracking or peeling from a 1kg load dropped 47.5cm
Permeability to water	ASTM D 1653	Transmission Good 64.6g/m ²
Resistance to liquids and stains	ISO 2812-1 Method 3	Permeance very low 3.1g/m ² over 24hrs
Scrub resistance and clean ability	ISO 11998	No mark left by lipstick, tea, tomato sauce, coffee, red wine, artificial perspiration, 10% Hydrochloric acid, engine oil
Spreading rate	ISO 7254	Good – 5.4µm loss on scrub test (200 cycles) and complete removal of soiling agents
		13.6m ² /l per coat onto tinplate



General application and other dry guff.



1. To increase Ultra-Bond penetration qualities, wash down substrate with water
2. Never mix any product, except Ultra-Products, into material. Never thin with water or other chemicals.
3. Always shake or stir Ultra-Products before and during application.
4. Ultra-Bond dries as a clear membrane. Mix 10% Ultra-Coat into Ultra-Bond to help with visibility of application and to give better covering property.
5. Where Ultra-Bond doesn't penetrate a surface, scrub or sand Ultra-Bond into substrate while still wet using a wire brush or 40 grit sandpaper.
6. Very smooth surfaces might require a second coat of Ultra-Bond. Always sand the surface before applying Ultra-Bond. Re-sanding or scrubbing with Ultra-Bond to penetrate the surface is a golden rule.
7. Always apply at least two (2) coats of Ultra-Coat.
8. If Superseal is used, apply three (3) coats and cover with two (2) coats of Ultra-Coat.
9. Seal all vertical walls next to concrete roofs at least 200/300 mm. high to stop moisture creeping underneath sealed surface.
10. Stains can be made using Ultra-Coat and Ultra-Clear. Ultra-Coat 10% and 90% Ultra-Clear as standard, mixture should not exceed 50/50 ratio.
11. Expanding and contracting cracks must be sealed using a membrane. Ensure that the membrane has enough play to take up movement of both surfaces in climatic change. Dry season will increase crack size and wet season decrease size.
12. Small cracks can be filled with cement, river sand and Ultra-Bond mixture. Follow cement manufacturer's specifications but replace water with Ultra-Bond. Ultra-Bond increases the elasticity of the dried product.
13. Where material with different expansion and contraction properties join, a membrane must be used. Ensure that the membrane is saturated with Ultra-Bond and Ultra-Coat.
14. Roofs should not be painted when the galvanized iron is hot or air bubbles will occur. Paint in the morning and afternoon or cool hours of the day.
15. Marine substrates must be sandblasted, and then Ultra-Metal Treat and Ultra-Bond applied before at least three (3) coats of Ultra-Coat is used.
16. Ultra-Screed needs to be chemically dry before anything is placed onto the surface, which usually requires a minimum of 24 hours.
17. Directional lines and artwork should be applied before Ultra-Clear is applied as final coat. If alterations are needed, a protective coating of Ultra-Clear must be applied after thorough cleaning.
18. Clean all brushes, rollers or spray guns with water. Warm water and soap can also be used.
19. If you have any doubts or unusual applications contact a friendly Ultralast product specialist.



Ultralast's amazing properties

- zero v.o.c. 0.04368kg/l
- adhesion (class 0, no failure)
- water bond
- reduces indoor temperatures by 8°C to 13°C (light colours)
- semi-permeable membrane
- acid resistant
- alkaline and stain resistant
- fungus resistant
- ultra violet and weathering resistant
- waterproof
- water carrier
- anti-condensation
- abrasion resistant
- colour & light fast, does not fade
- rust preventative
- creep and impact resistant
- flexibility - (very good)
- extremely scrubable
- non-toxic
- easy application even by unskilled labour
- low overall cost
- one paint for all surfaces
- fire retardant
- life expectancy 10 years +
- shelf life of 2 years + (when well sealed)
- clean up with water
- cleanability (very good)
- dries quickly
- will never harden
- odourless
- no blistering
- no flame spreading

Why Ultralast is superior

Conventional paints are porous (ie, they soak into the painted surface), but Ultralast is membranous. Its special sealer locks deep into the surface substrate and creates an extraordinarily strong surface bond with it, to produce a membrane – flexible, yet with a unique toughness and holds it together.

Conventional paints are a toxic cocktail. In manufacturing, they go through up to 23 separate chemical processes to produce the end product. Many of these chemical processes are designed to neutralise the side-effects of other component chemicals.

Of course, there are other low-VOC paints available. But none can compete with Ultralast in quality, durability and range of products. Unlike most of its competitors, the Ultralast product lineup has a wide range of applications: architectural (interior and exterior) industrial and waterproofing.

Hence, if you're looking for an absolutely environment friendly coating system, choose Ultralast, as it meets stringent global environmental criteria.

Architects and builders are increasingly specifying Ultralast because, especially in large industrial and construction applications, it virtually eliminates one of the main causes of “concrete cancer”: moisture penetration. And on the interior, the tough Ultralast membrane endures industrial wear and tear far better than any other coating... even when applied to floors subject to heavy foot and even machinery traffic.



Superior quality, superior performance

Ultralast is water-based, so use and clean-up is as easy as it is for any conventional water-based acrylic paint. Ultralast paint goes through just seven processes in manufacture. So it's extraordinarily stable, with a shelf life in the can of up to 7 years (compared to 2 years for conventional paints). This makes it attractive to retailers because inventory control is simplified, with little waste.

Ultralast presents and handles just like conventional acrylic paint, only better. The first thing you notice is, during application, odour is practically non-existent – regardless of the colour of the paint you use. Ultralast is quick drying and will not blister, crack or bleach for years after application. The ecoating™ does not harden or deteriorate with age.

Insulation

Because of its tough nature, Ultralast has outstanding insulation properties. So much so, that studies show buildings painted with Ultralast can deliver savings of \$1 per square metre per annum in energy costs. Long term, this means far less energy use for buildings painted with Ultralast... and a consequent reduction in overall greenhouse gas discharges.

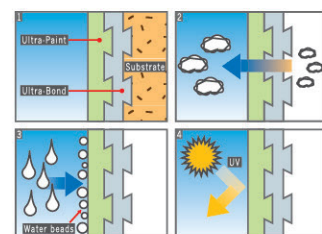
Fire retardant

In any fire situation, it's the toxic chemicals in conventional paints that generally support and enhance combustion, feeding the fire. But the unique formulation of Ultralast not only does not support combustion – it's actually a fire retardant! In a fire, often it's the toxicity of the smoke which injures and even kills people. But Ultralast has a smoke toxicity index of zero



Unique one-way membrane protection

Once applied to a properly-prepared surface, Ultralast acts as a one-way membrane, allowing small amounts of moisture to escape to the surface (in the form of water vapour) but preventing moisture from penetrating the painted surface. This membranous characteristic confers outstanding benefits in all applications, leading to some truly astonishing performance attributes in the most aggressive conditions.



TimberSafe

A breakthrough in the long term protection of all types of hardwood and softwood. Fountain of youth for timber.

- Protects against fungi and wood rot.
- TimberSafe is not a pesticide, nor is it an insecticide
- Non-toxic wood preservative.
- Clear finish.
- Fire retardant / resistant.
- Environmentally safe.
- Economical.
- Once only treatment.
- Dramatically increases timber lifespan.
- No obnoxious odours.
- 10 year warranty.

Scientific Validation

Approved and tested by the Australian Wool Testing Authority, (AWTA) as a fire retardant complying with Australian Standards AS/NZS 1530.3-1999. AQIS- tested for successful killing and controlling of timber related fungi. Department of Primary Industries, (DPI)-Qld Forestry Research Institute tested for outstanding penetration into timber. Borate has been successfully CSIRO tested for efficacy against termites, borers, wood-rot (fungi).

Application Methods

Product can be safely sprayed, brushed or rolled even whilst building is inhabited. Can be applied in all weather conditions, wind, heat, cold but not if substrate has been wet previously - if so allow substrate to dry for 12-16 hours before application. Once TimberSafe has dried it can be painted or stained. Not effective on pre-painted surfaces. Can be applied

to garden mulch as both a termite treatment and fire retardant purposes. TimberSafe is not a pesticide, nor is it an insecticide - it is a non-toxic wood preservative. The main active constituent is boron - one of 109 elements that make up planet Earth. In nature, boron will often combine with oxygen and other elements - commonly called 'borates'. TimberSafe consists of a unique blend of borates immersed in an odourless and colourless liquid carrier.

Protects against fungi and wood rot

TimberSafe protects timber from fungal decay (wood rot) and is effective against well over 2,000 species of fungi.

Clear finish

TimberSafe dries to an 'invisible finish', will not leave stain marks and will last the entire life of the timber.

Fire retardant / resistant

TimberSafe won't support combustion. On a 'Fire Scale Index' of 1 to 10 (10 being the most flammable) raw timber normally rates 5. The same raw timber treated with TimberSafe rates 1.

Non-toxic and environmentally safe

TimberSafe is non-toxic to humans and all warm-blooded creatures including birdlife and will not harm fish or crustaceans when used in a marine environment. It can be applied without the slightest safety concern while a building is inhabited.

Economical

At less than 40 cents per lineal metre, TimberSafe is a highly cost effective solution for protecting timber against wood rot, termites, borers and fungal attack.

Deep penetration and dispersal

Timber 'recognises' TimberSafe as a kind of 'artificial sap' which can take and hold the borates deep within timber (up to 150mm).

Once only treatment

TimberSafe is non-biodegradable. It will not break-down or lose strength over time and continues to work indefinitely when applied to either new or existing timbers.

Dramatically increases timber lifespan

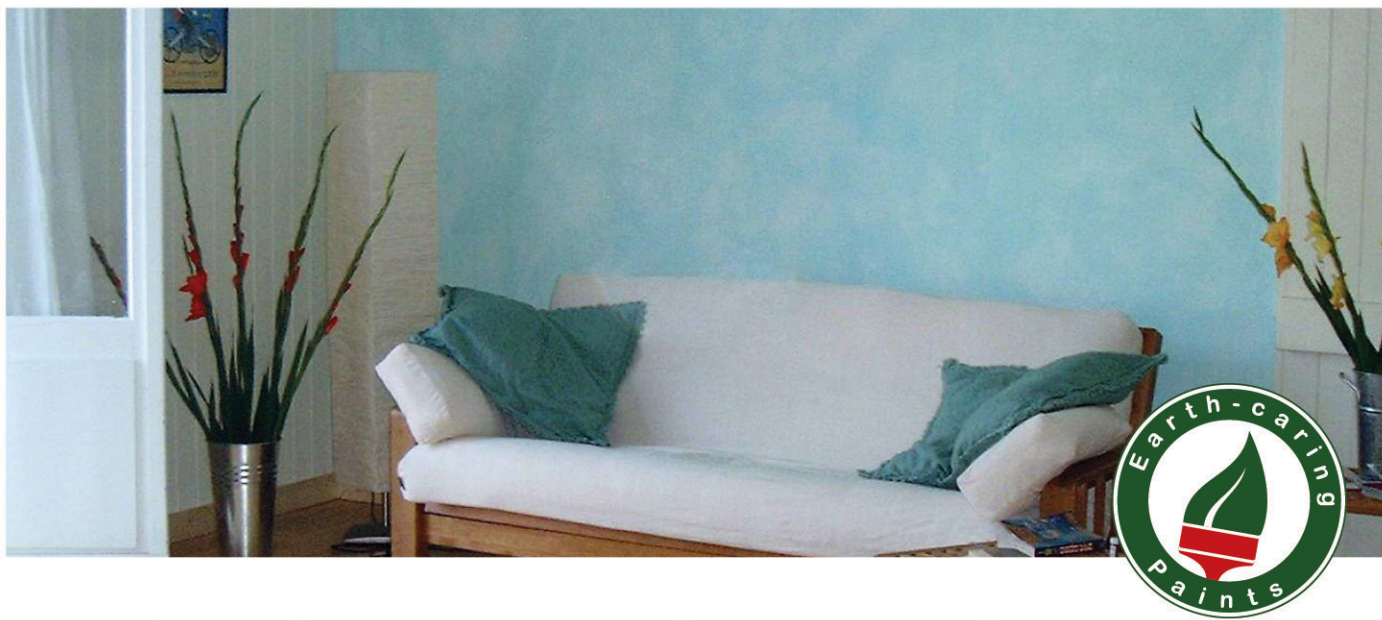
TimberSafe's unique ability to internally 'lubricate' timber inhibits splitting and warping which reduces the ageing process.

No obnoxious odours

There are no obnoxious or harmful odours hanging around for days to upset sensitive noses and it is completely safe to use around children.

10 year warranty

TimberSafe carries a 10 year warranty against failure when applied in accordance with the manufacturer's instructions



Ultra - Clear

Ultra-Clear is a water borne acrylic, electrometric membrane that is formulated as a clear product and which provides superb sealing qualities. It penetrates deep into the surface and reduces oil, grease, acids, and alkalis seeping into the surface and causing deterioration. The acrylic resin enables it to bridge hair line and minor cracks within the substrate. It also keeps dust down and forms a durable waterproofed surface, which is chemical and abrasion resistant. Ultra-Clear is used alone as waterproofing coating where the natural colour is to be preserved, such as face brick, wooden doors and window frames, roof tiles, stones, etc. Furthermore, it could also be used as reinforcement to fibreglass to gain maximum benefit. Additional advantages include:

- Protects surface against efflorescence
- Ultraviolet, heat and stain resistant
- Does not yellow with age
- Good adhesion and flexibility
- Non-toxic and odour free

Technical specifications

Storage: Keep containers well sealed at moderate temperatures

Clean up: Clean all equipment thoroughly with water immediately after use

Colours: Wet – Milky colour

Dry – Transparent or colour of choice

Solids (% by volume): 51% – 1%

Gloss: Semi-gloss

Spreading rate: 10 – 15 m² per litre (1 coat depending on substrate)

Ultra - Line Mark

Ultra-Line Mark is a pure acrylic emulsion paint for application to tar/bitumen and concrete roads. Its principal characteristics are:

- Low Volatile Organic Compounds (VOC), which ensure long lasting paint with less frequent application and no noxious fumes or odours during application
- Quick drying and low dirt pick up. Will not flake and deteriorate like conventional paint
- Supplied ready for brush/roller/spray application
- Excellent adhesion properties, which will maintain its sheen
- Excellent glass bead retention
- Drying time is 3 to 5 minutes at 21°C

Technical specifications

Clean up :Clean all equipment thoroughly with water immediately after use

Colours: White, yellow, red and blue with sheen finish, and black with matt finish. Thinners Must not be thinned

Solids: Approximately 65% by mass

Flash point: Not flammable

Shelf life: Minimum 2 years +

The normal spreading rate for Ultra-Line Mark is 1 m²/litre at 25 micrometers Dry Film Thickness (DFT) on a smooth surface. However, this may vary depending on the substrate.



Crack bridging

ultralast ensures a smooth finish, thanks to its excellent crack bridging capability. This also protects the surface from coming into contact with the moisture and saline particles in the atmosphere.



Ideal for coastal areas

ultralast is the most recommended surface coating solution for coastal areas. When sand, salt and saline water sprays damage ordinary paints, ultralast will resist such hazards, thanks to its toughness and impenetrable membrane.



Zero VOC, environment friendly

ultralast surface coating range is absolutely green. The range doesn't contain any harmful chemicals or substances. With its toxicity index levels down to zero, ultralast is very safe too.

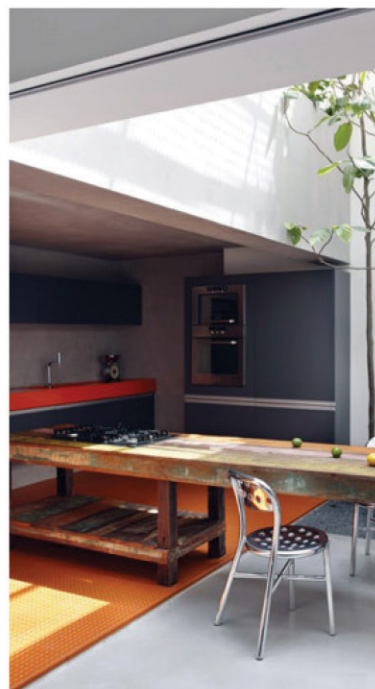


Easy to apply, value-for-money

ultralast is water soluble. It is quite easy to apply. ultralast is sturdy and resists fading and ageing. It also covers more surface than normal paints. Precisely why ultralast offers excellent value-for-money.



The Ultralast product range in just four pages.



The Ultralast product range is not nearly as extensive as that of other paint manufacturers. The reason is, it doesn't need to be. Other commercial paints require changes to their chemical formulation to suit different conditions. But the simple formulation of Ultralast means that this remarkably strong and stable paint can adapt and adhere equally well to many different surfaces, in any environment: hot, cold, wet or salty (coastal). So well in fact that it allows Ultralast to provide performance guarantees of up to 25 years on some products. In the commercial paints industry, that's quite simply unheard of!

Ultra - Bond

Ultra-Bond is a highly acrylic water borne penetrating primer or undercoat that has excellent flexibility and impact resistant properties on all surfaces it's applied to. Ultra-Bond is suitable for application over old and new concrete, slates, bricks, plaster, asbestos, roof tiles, hard boards, chip boards; aluminium, galvanized steel, painted areas, etc. Other major advantages of the product include:

- Deep penetration allows the primer to gain a tough durable grip on the surface it's applied to, creating a long-lasting quality coating
- Low viscosity
- Waterproofing properties
- Excellent permeability
- Excellent adhesion of Ultralast product

Technical specifications

Storage conditions, Room (moderate) temperature, tightly closed (sealed)
 Colour (wet)
 Milky
 Solid (%) by volume: 18%
 Gloss: Slight sheen
 Water resistance: Excellent
 Abrasion resistance: Good
 Corrosion resistance: Good
 Spreading rate: 12 to 15 m² per litre at dried film thickness of 18 microns

Ultra-Coat

Ultra-Coat acts as a one-way membrane, allowing moisture to escape to the surface but prevents moisture ingress into the treated substrate. Additional properties include:

- A high degree of elasticity, so it won't chip or crack
 - Excellent adhesion capabilities to all surfaces
 - Colour fastness: won't fade
 - Natural pigments that won't fade with time
 - Naturally Fungi retardant
 - Heat and flame resistant to 230° C
 - No hardening or deterioration with age
 - An aggressive scrubbing endurance; paint is hardy and extremely durable.
 - Non-toxic: great for the families, the applicators and the environment
 - Odourless on application: people can move in and out of the painting environment with no upset due to toxic smell. Pets are safe
 - Immediate occupancy of painted premises due to lack of odour
- The Ultra-Coat product is a textured paint that can be used as an acoustic sound absorber on walls and ceilings. Although it is typically applied as a decorative finish on walls, it is ideal for

obscuring building defects over a prolonged period of time.
 Anecdotal evidence includes:

- A 14-year-old sample of dried paint remains pliable and elastic
- A church painted white 30 years ago (in South Africa) still appears white (i.e. no yellowing with age)
- Colour fast for more than 70,000 hours
- Buildings painted with Ultra-Coat are between 5° and 7° cooler

Technical specifications

Storage conditions: Room (moderate) temperature, tightly closed (sealed)
 Shelf life: 7 years +
 Temperature tolerance: - 50°C to 230°C
 Physical form: Liquid
 Minimum application temp: 5°C
 Solid (%) by volume: 57%
 Gloss: Matt/Semi Gloss
 Water resistance: Excellent
 Spreading rate: 10 to 12 m²/ litre per coat

Ultra Superseal

Superseal is a water borne, ready to apply elastic waterproofing sealant for filling and sealing cracks and joints in metal, concrete and wood surfaces, which prevents water penetration. When cured, it forms a tough, highly durable, flexible seal that has ultimate protection properties and can tolerate thermal shrinkage movements of the substrates. It is ideal for application to metal roofs, parapets, dams, gutters, down pipes, concrete roofs, pre-cast panel walls, glazing, etc. Additional advantages include:

- Fast drying, excellent water resistance properties
- Excellent movement tolerance
- Stain resistant
- Impact resistant
- Cures to form an elastic seal
- High fire resistance
- Excellent in sealing cracks and joints

Technical specifications

Storage conditions
 Room (moderate) temperature, tightly closed (sealed)
 Colour (wet)
 Grey and White
 Solid (%) by volume
 55%
 Gloss
 Satin
 Water resistance
 Excellent
 Spreading rate: 4-6 m²/lit/per coat



Ultra Nu - Pave

Ultra Nu-Pave flooring product recently underwent Anticorrosion and Slip testing by CSIRO, at the request of both the NSW State Rail Authority and Woolworths. The tests produced a remarkable result: a rating of R12, making Ultra Nu-Pave the first coating ever to achieve this rating, previously only possible with tiles. CSIRO Test Report No. 4149s certifies slip resistance classification of new pedestrian surface material (Ultra Nu-Pave) at a mean overall acceptance angle of 30.7°, officially achieving the R12 rating. This result unlocks a whole series of new applications that remove the need for costly vinyl or ceramic tiles in high-traffic areas where health and safety are paramount... such as retail or public transport situations.

Technical specifications

Storage and application requirements
 Room (moderate) temperature, tightly closed (sealed)
 Colour: Grey, Red
 Finish: Matt
 Thinner: Must not be thinned
 Solids (%) by mass: Minimum 90%
 Solids (%) by volume: Minimum 95%
 Flash point: Waterborne and not flammable
 Shelf and pot life: 2 years +
 Thickness: Minimum of 1 mm
 Drying time (at 20°C and 1 µm)
 Touch dry (30 minutes)
 Full cure (24 hours)
 Spreading rate: 4 to 6 m² per litre

Ultra - Metal Treat

Ultra-Metal Treat is formulated with an excellent rust-block additive that protects all types of metal against corrosion. The product is ideal for areas such as metal, rolled steel, mild steel, stainless steel, etc. Additional advantages include:

- Deep penetration into the substrate.
- Waterproofing properties
- Excellent permeability
- Good adhesion of the Ultra-Coat product
- Ultra-Metal Treat has a high fire and heat resistance
- No chipping or scaling
- Ultra-Metal Treat is non-toxic and odourless
- Corrosion resistant
- Ultra Violet resistant
- Fungus and chemical substance resistance, e.g. acid, alkaline, etc
- Creep resistant

Technical specifications

Storage conditions, Room (moderate) temperature, tightly closed (sealed)
 Colours: As per colour chart
 Solid (%) by volume: 47%
 Gloss: Slight sheen
 Water resistance: Excellent
 Abrasion resistance: Good
 Corrosion resistance: Good
 Spreading rate: 8 to 10 m² per litre at dried film thickness of 56 microns

