

HANA

PAINT

THE NEW ERA OF

ANTICORROSIVES



THE MOST PROMISING

HANA

STABILIS

STEEL COATINGS

Introductions

Corrosion is a common and demanding issue that is estimated to cost the global marine industries about \$50 to \$80 billions a year in terms of maintenance of marine structures. Corrosion control through suitable protective coatings is therefore a major concern to ensure no disruption to the major operations within the industries.

The **STABILIS STEEL COATINGS** series is a result of the efforts of our individual and combined teamwork through years of research and development. It consists of different components ranging from shop primers to anti-fouling coatings designed to cater to various individual needs. A complete coating solution can also be offered to provide the ultimate protection.

The **STABILIS STEEL COATINGS** series has superior anti-corrosive and adhesion properties, making it suitable to withstand the harshest of the environmental conditions. It is also versatile and suitable with various subsequent coatings without compromising the performance of the whole overall systems. It's wide application window also meant that it can be easily catered to suit erratic schedules in the marine industries. All these advantages will translates to a lower maintenance cost for the owners.

SHOP PRIMER

Key Features :

- Thin layer (18 - 25 μ)
- Rapid dry
- Excellent weldability and cutting properties
- Good corrosion resistance
- Compatible to various subsequent coating

Main Products :

- Stabilis E-SP - 2 pack epoxy MIO Shop primer
- Stabilis EPZR - 2 pack epoxy zinc shop primer
- Stabilis IOZ Xtra - 2 pack ceramic shop primer

UNIVERSAL PRIMER

Key Features :

- High solid & low VOC 2 pack epoxy
- Xylene & Toluene free epoxy system
- Moisture and Surface Tolerant
- Excellent corrosion resistance , comply to ISO12944-6 C5M/C5I High Durability
- Universal & Compatible to various subsequent coating

Main Products :

- Stabilis MAX - 2 pack ceramic epoxy MIO Primer
- Stabilis E-ZP - 2 pack epoxy zinc phosphate coating
- Stabilis EP - 2 pack epoxy general purpose coating

Painting System

Hold and ballast tank-

1st coat : Stabilis Max - 150 μ

2nd coat : Stabilis Max - 150 μ

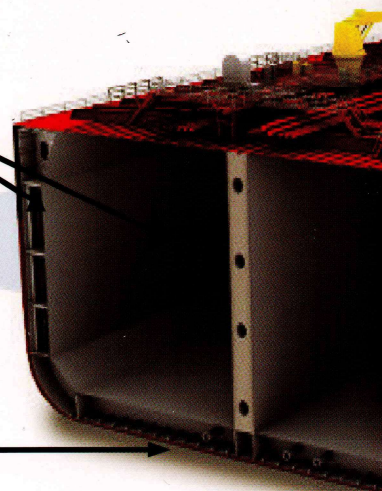
Fresh water or Chemical tank-

1st coat : Stabilis EP-Gard/100 - 150 μ

Flat Bottom-

1st coat : Stabilis Max - 150 μ

2nd coat : Stabilis AF 100/200 - 150 μ



TANK COATINGS

Key Features :

- High solid & low VOC 2 pack epoxy coating
- Xylene & Toluene free epoxy system
- Excellent chemical resistance to various chemicals
- Excellent corrosion resistance, comply to ISO12944-6 C5M/C5I High Durability
- Comply to PSPC requirement and suitable for drinking water tanks

Main Products :

- Stabilis EP-Gard- 2 pack epoxy polyamide amine adduct coating
- Stabilis EP-Gard Xtra - 2 pack phenolic epoxy coating
- Stabilis EP-Gard 100 - Solventless phenolic 2 pack epoxy coating

EXTERIOR COATINGS FOR DECK, SUPERSTRUCTURE, ACCOMODATION AND ENGINE ROOM

Key Features :

- Full range of economical and high performance finishing
- Excellent weathering resistance
- Excellent corrosion resistance, comply to ISO12944-6 C5M/C5I High Durability
- Good anti contamination with oleophobic and hydrophobic properties.

Main Products :

- Stabilis S- General purpose one pack epoxy alkyd finishing
- Stabilis ACR - Versatile one pack epoxy acrylic coating
- Stabilis AE - Non yellowing and anti chalking 2 pack epoxy acrylic coating
- Stabilis U - Two pack ultra durable aliphatic polyurethane coating
- Stabilis WBE - 2K water-based epoxy coating
- Stabilis WBARC - 1K water-based acrylic coating

TIE COAT / SEALER FOR AF PAINT

Key Features :

- Improve adhesion between primer and Anti fouling paint
- Sealer to secure the aged anti fouling paint for subsequent AF coating
- Compatible to various AF system from different paint manufacturers

Main Products :

- Stabilis EP-Tie- 2 pack high solid epoxy tie coat
- Stabilis V Sealer - Single component universal vinyl base sealer

TIN FREE SELF POLISHING ANTI FOULING PAINT

Key Features :

- High solid Tin-free Self Polishing anti fouling coating
- Comply to IMO
- Certified by Class body for Type Approval for Tin-Free AF system
- Suitable for coastal and ocean going vessels
- Excellent static anti fouling properties for > 36 ~ 60 months AF system

Main Products :

- Stabilis AF-100- economical and general purpose anti fouling system
- Stabilis AF-200 - standard anti fouling system for coastal and ocean going vessels
- Stabilis AF-300 - High performance anti fouling system for coastal and ocean going vessels

Accommodation-

1st coat : Stabilis Max - 150 μ

2nd coat : Stabilis S/ACR/AE/U/WBARC- 50 μ

Top side & deck-

1st coat : Stabilis Max - 150 μ

2nd coat : Stabilis S/ACR/AE/U/WBE - 50 μ

Hull coating-

1st coat : Stabilis Max - 150 μ

2nd coat : Stabilis AF 200 / 300 - 150 μ

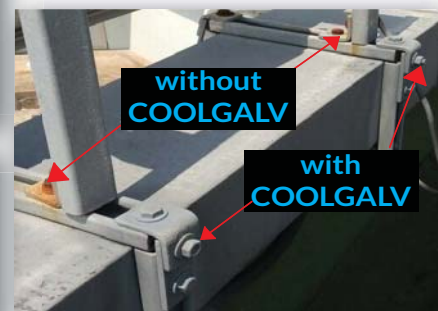
3rd coat : Stabilis AF 200 / 300 - 150 μ

Massive costs on maintenance and repair works of aged or damaged steel structures are often a major concern for asset owners. Repair works are usually complicated and time consuming. Hence, keeping maintenance to a minimum has thus become of paramount importance to all asset owners.

COOL GALV provides the solution by simplifying maintenance and repair works of any aged or damaged structures. Utilizing nanotechnology and specially-formulated resins, it gives superior anti-corrosion performance that is similar to coatings applied using Hot-Dipped Galvanization. Most importantly, application is simple, cost effective and environmentally friendly.

MAJOR FEATURES

- 1 Most Advanced IN-SITU film galvanizing system which gives 96% zinc in dry film for Active Cathodic Protection comparable to Hot-Dipped Galvanizing(HDG)
- 2 Nanotechnology and special resin to stabilise and control the depletion of the ultra fine atomized zinc dust
- 3 One component metallic coating with no limitation on pot life and shelf life
- 4 Easy to replenish/recharge the old Cool Galv by blending into homogeneous single paint film
- 5 Easy to repair and replenish aged/damaged hot-dipped galvanizing or thermal spray structures
- 6 Paint film will not crack, come loose to peel off like Inorganic Zinc or Epoxy Zinc systems



Limitations of Conventional Cold-Galvanizing Paint

Based on study, for an effective cathodic protection, the zinc content in dried film must be > 92%.

The conventional 'cold galvanizing' paint in the market either contains a lower amount of zinc or it is just a metallic paint that acts as cosmetic paint for Hot-Dipped Galvanizing structures without any anti-corrosive protection.

RUSTED AND PEELED-OFF USING CONVENTIONAL COLD GALVANIZING PAINT

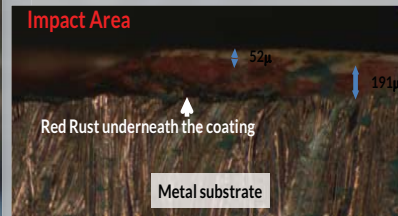


ACTIVE CATHODIC PROTECTION VS PASSIVE BARRIER PROTECTION

Conventional epoxy primer and protective coating system only provides passive barrier protection by blocking contact of water/moisture and oxygen with the metal substrate. Once breakdown of the paint film occurs due to mechanical damage or natural deterioration of the polymer, water and oxygen will seep through and corrosion will begin, resulting in the breakdown of the barrier coating.

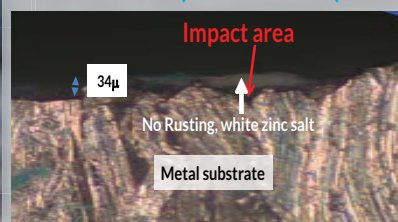
Cool Galv provides active cathodic protection and acts as sacrificial anode to protect the underneath metal substrate. The paint film is further fortified for barrier protection once the atomised zinc particles are oxidised and the metal is still protected from corrosion even if there is a slight breakdown of paint film.

EPOXY PAINT SYSTEM (PASSIVE SYSTEM)



Consequences :
Corrosion happened at impact area (breakdown of paint film) with formation of iron oxide which is 6 times the volume, it will caused the paint film to peel off and steel corroded.

COOL GALV (ACTIVE SYSTEM)



Consequences :
Zn is consumed/ sacrificed instead of iron (substrate) at impact area and metal is protected against corrosion through active cathodic protection.

THE ADVANTAGES OF COOL GALV SIMPLE, SUPERIOR & SAVE

SIMPLE - Ease of Application

- 1-Pack product with no shelf life and pot life
- Easy to apply by brush, roller, spray or dipping
- Minimum surface preparation (Sa 2.5, Sa2.0 , St 3 or St 2)
- Can apply on damp surface after high pressure water-jet cleaning
- As topcoat by itself or duplex system with PU, Epoxy, Acrylic
- Easy to carry around & use for new building or repair of Hot-dipped galvanizing, thermal-spray, bare & coated steel structures

SUPERIOR - Long Term Protection

- Lifetime protection like Hot-dipped Galvanizing (HDG)
- Active Cathodic Protection like HDG but apply as a paint
- Passed 3000 hours of Salt Spray as per PTS 15.20.03-2017 & PTS 30.48.00.31-P (2012) tested by SIRIM QAS
- Comply to ISO 12944-6 C5M / C5I High (Tested by TUV SUD PSB / SIRIM)
- Require 80-160 microns in 1-2coats for protection expectancy up to 15 years
- Good mechanical properties and paint film will not crack or peel off

SAVE - Cost Effective and Environmentally Friendly

- Non-toxic - does not contain Xylene, Ethyl benzene or MEK
- Cheap & effective as an alternative to Hot-Dipped Galvanizing (HDG)
- More economical than conventional 3-coat system
- Extend service life of HDG and metallising structures by replenishing and restoring the Active Cathodic Protection
- Reduce maintenance- extend maintenance cycle with minimum secondary surface preparation



STORAGE TANKS



OFFSHORE STRUCTURE



MARINE STRUCTURES



TRANSMISSION TOWER



ROAD INFRASTRUCTURE

DISTRIBUTOR IN SINGAPORE :

SUN HAI Engineering & Trading.

+65 6898 2314

+65 6898 2421

enquiry@coolgalv.com

4 Penjuru Place #01-18,
2-8 Penjuru Tech Hub
SINGAPORE 608782

DISTRIBUTOR IN MALAYSIA :

AWATRAHANA SDN. BHD.

+603 76284588

+603 76284587

info@awatrahana.com

Unit D-3A-3A & D3A-05
Level 3A Menara Mitraland,
No 13A Jalan PJU 5/1, Kota Damansara
47810 Petaling Jaya Selangor

Corrosion is a phenomenon that has long plagued the marine, oil and gas industries. As a result, massive costs have often been incurred by asset owners on account of maintenance and repair works, but yet with little effect. Keeping maintenance to a minimum and prolonging service life has thus become of paramount importance to all asset owners.

Extended
maintenance cycle
of beyond
10 YEARS

We present **EASY ON** Coating Repair Rescue Kit, an instant on site coating repair kit for easy repair via aerosol spray. This is most beneficial for asset owners especially in the offshore facilities of the oil and gas industries. The all-in-one kit empowers asset owners with simplified facilities on-site maintenance and reduce any need for major asset maintenances.

TECHNOLOGICAL FEATURES

- Most advanced IN-SITU film galvanising system
- 1-component metallic system with no potlife and shelflife limitation
- Provides dual protection (Active Cathodic and Barrier Coating Protection)
- Advanced nanotechnology which controls the rate of ultra-fine atomized zinc dust depletion
- Applied as a coating unlike Hot-Dipped Galvanizing with excellent anti-corrosion protection
- Tested & Complied to ISO 12944-6, certified C5-M/C5-I High Durability by SIRIM QAS, Malaysia & TÜV SÜD PSB, Singapore
- Complied to latest PTS 15.20.03-2017 M1-B and M1-D maintenance system
- Passed **3000 hours** of salt spray as per PTS 15.20.03-2017 & 30.48.00.31-P (2012) tested by SIRIM QAS



Easy application on bare iron and steel structures or equipments that are aged hot-dipped galvanizing structures

PRODUCT KIT ADVANTAGES

- Offers **fast on-the-spot** repair
- **Prolongs service life** by eliminating the need for any major maintenance
- **Lesser** lead time for maintenance
- **Better asset cost** management for owners
- **Hassle-free** surface cleaning prior to application
- Hassle-free application as repair is done via aerosol spray
- One Easy-On Rescue Kit is able to cover up to **1m²** of total combined spot repair coverage at 80 microns (2 Layers)
- Ideal to **replenish zinc layer** of aged/damaged hot-dipped galvanizing structures for extended service life



EASY-ON RESCUE KIT CONTENT

- Cool Galv Aerosol Spray (400 ml)
- Cleaning Solution for Oil, Rust and Grease (200ml)
- Bronze Wire Brush
- Coarse Sand Paper (With Handle)
- Cloth Pads
- Gloves
- Mask
- Angled-Brush
- Safety Goggles
- Paint Scrapper
- Chipping Hammer

USAGE INSTRUCTIONS

Surface Preparation:

1. Use Bronze Wire Brush to remove rust, mill scale and loose paint film to a minimum of **ST2**.
2. Remove oil, rust and grease contaminants using the cleaning solution provided and wipe off using cloth pads.
3. Clean the surface with diluted detergent solution to remove all grease, oil stains and contaminants.
4. Use fresh water to rinse and clean the surface thoroughly to remove chemicals and soluble salts. Dry off the surface with clean cloth.

Application:

1. Apply onto the affected surface or spots using the **Cool Galv** Aerosol Spray.
2. Minimum DFT of 80 microns (2 Layers) is required.
3. Apply ~2 to 3 passes for each layer and apply the 2nd layer when the 1st layer has dried.



SAFETY PRECAUTIONS

- Gloves and mask must be put on at all times during surface preparation and application.
- Care must be taken when contact is made with exposed wound or open cut as stinging sensation might occur.
- Aerosol spray must not be pointed towards the direction of self or others when using.
- All the solutions and aerosol spray contained in the rescue kit are generally non-toxic.
- For more information on the safety use, refer to the Safety Data Sheet and contact us for further information.

DISTRIBUTOR IN SINGAPORE :
SUN HAI Engineering & Trading .

+65 6898 2314

+65 6898 2421

enquiry@coolgalv.com

4 Penjuru Place #01-18,
2-8 Penjuru Tech Hub
SINGAPORE 608782

DISTRIBUTOR IN MALAYSIA :
AWATRAHANA SDN. BHD.

+603 76284588

+603 76284587

info@awatrahan.com

Unit D-3A-3A & D3A-05
Level 3A, Menara Mitraland
No 13A Jalan PJU 5/1, Kota Damansara
47810 Petaling Jaya , Selangor, Malaysia

SHIELD GREEN COATINGS

At HANAPAIN, we are committed to the development and implementation of chemical products and processes to reduce or eliminate the use and generation of substances hazardous to human health and the environment.

HANASHIELD series was developed with that in mind. Each and every product was formulated with the environment as a first priority, ensuring that everything that we do is in line with the green initiatives and yet maintaining the high level of performance and standards needed for a long lasting performance.

HANASHIELD INTERIOR

- Water-Based Finish coating
- Can also act as sealer for subsequent water based coatings
- **Low** VOC
- Good Adhesion Performance
- Good **alkaline and efflorescence resistance**
- Available in a wide range of colours



Hygienic Coatings is especially suitable for use in hospitals and hospice wards where superbugs are prevalent.

HANASHIELD EP-500

- Solventless Epoxy Finish
- High Volume Solid
- **Low** VOC
- Specially formulated compound which is **antibacterial**, providing **ultra hygienic protection**

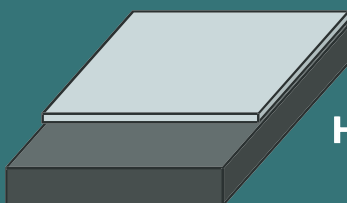


HANASHIELD KURIN

- Water-Based Finish Coating
- **Low** VOC
- Specially formulated compound which is **antibacterial**, providing **ultra hygienic protection**
- Available in a wide range of colours



INTERIOR

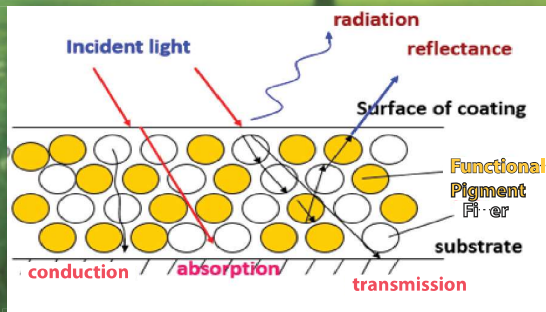
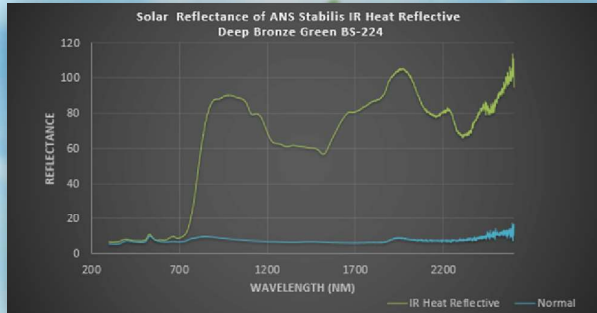


HANASHIELD (TOPCOAT)
SUBSTRATE

HANASHIELD INTERIOR TOPCOAT

- HANASHIELD INTERIOR
- HANASHIELD EP-500
- HANASHIELD KURIN

SHIELD GREEN COATINGS



Hanashield Cool/HIR Coating is applied on building facades and rooftops to lower interior temperatures of the buildings.



HANASHIELD GLO

- Water-Based Premium Finish Coating
- Near-Zero VOC
- Excellent Colour and Gloss Retention (Passed 3000 hours QUV Test according to ASTM 4587-11/ISO 4892-1:2016)
- Available in a wide range of colours

HANASHIELD COOL/HIR

- Water-Based IR Heat Reflective Thin/Film Coating
- Near-Zero VOC
- Excellent Colour and Gloss Retention (Passed 3000 hours QUV Test according to ASTM 4587-11/ISO 4892-1:2016)
- Significant Reduction in Interior Room Temperature
- Tested by TÜV SÜD PSB
- Comply to the Global Total Solar Reflectance (TSR) Standard
 - JG/T 235-2014 (China)
 - JIS K 5675 (Japan)
 - LEED/ASHRAE/IECC/Energy Star (USA)
 - SGLS Label of Solar Reflectance Coating (Singapore)

EXTERIOR

HANASHIELD (TOPCOAT)
HANASHIELD INTERIOR
SUBSTRATE

HANASHIELD EXTERIOR TOPCOAT

- HANASHIELD COOL
- HANASHIELD GLO

The heat that we have been experiencing is mostly due to the Infrared (IR) radiation that makes up about 49% of the total solar spectrum.

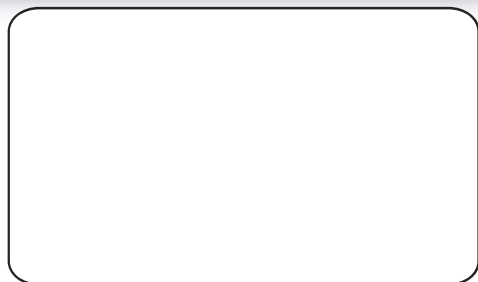
Hanashield Cool/HIR coating works by reflecting the incident IR radiation directly from the coated surface using special functional pigments, thereby cooling the coated surface and indirectly reduce the interior temperature of the building.

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SUN HAI ENGINEERING & TRADING.

- +65 6898 2314
- +65 6898 2421
- enquiry@coolgalv.com
- 4 Penjuru Place #01-18,
2-8 Penjuru Tech Hub
SINGAPORE 608782

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AWATRAHANA SDN. BHD.

- +603 76284588
- +603 76284587
- info@awatrahana.com
- Unit D-3A-3A & D-3A-05
Level 3A, Menara Mitraland
No 13A Jalan PJU 5/1, Kota Damansara
47810 Petaling Jaya, Selangor, Malaysia



Road surface markings are applied on paved roadways to provide guidance and information to drivers and pedestrians. It is therefore important to ensure that road marking coatings are able to withstand wear and tear from everyday use. Continuous effort are being made to improve the road marking coatings by adding retro-reflectivity and increasing the durability.

HANA ROADMARKER is a synthetic thermoplastic coating based on epoxy-acrylic binder. It is a fast-drying and weather-durable coating that is formulated to provide retro-reflectivity properties and can withstand wear and tear on paved roads. It can be supplied as non-reflective or reflective type.

BENEFITS

- Fast, durable and cost effective application
- Tough, fast drying and weather resistant
- Can be supplied as reflective and non-reflective type
- Easy to apply by brush, roller or spray
- Good adhesion and wear resistance for road and floor marking
- Protect against algae & fungus
- Comply to traffic paint requirement such as SS221, MS 164, NZ TA M07, etc

COLOURS



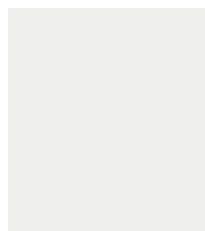
RAL1023



RAL5012



RAL6024



RAL9016



RAL9017

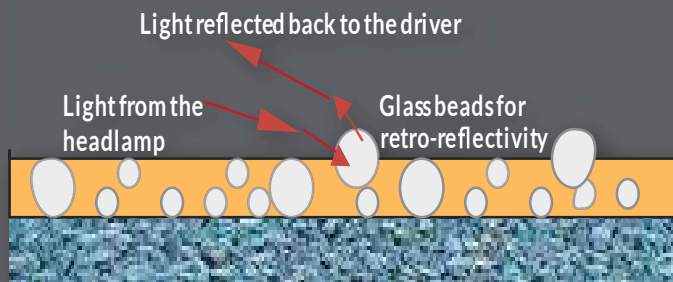


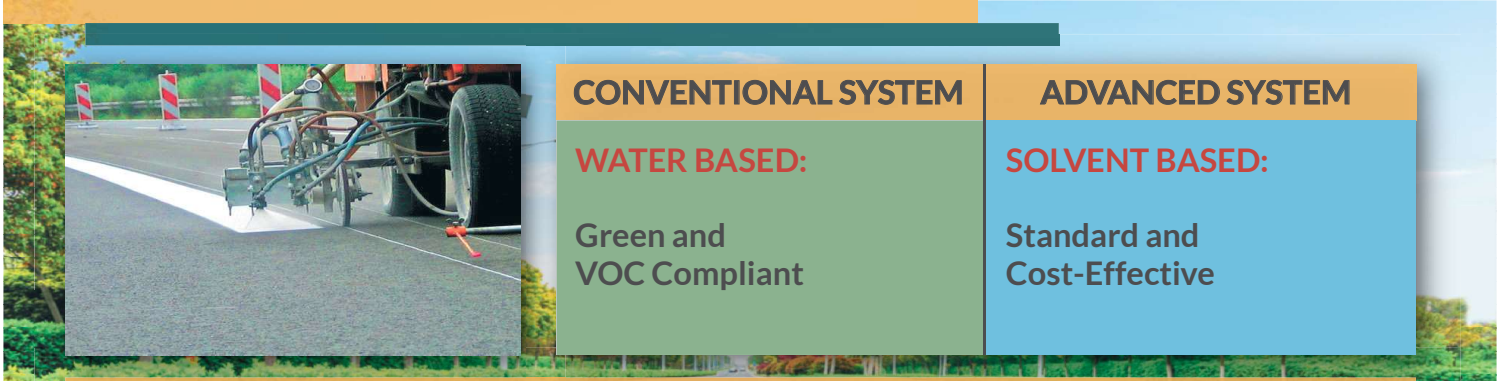
RAL3020

*COLOUR ARE ELECTRONICALLY PRINTED AND MAY VARY SLIGHTLY FROM ACTUAL PRODUCT.



Retro-reflectivity created by the glass bead can significantly enhance the color illumination and day-time / night-time line visibility.





CONVENTIONAL SYSTEM

WATER BASED:
Green and VOC Compliant

ADVANCED SYSTEM

SOLVENT BASED:
Standard and Cost-Effective

RECOMMENDED USE



KERBS



MARKINGS



EXISTING ROAD PAINT



AIRPORT MARKING



CARPARKS



SCHOOL ZONES

APPLICATION DETAILS

Drying Time (at Dry Film Thickness 40µ)	Temperature	10°C	20°C	30°C
	Surface Dry	30mins	20mins	10mins
Painting interval:	Hard Dry	50mins	40mins	30mins
	Minimum	40mins	30mins	20mins
	Max. (self)	—	—	—
Theoretical coverage (at DFT 40 µ)	100 m / litre ;			
Service temperature	-60 to 120°C dry			

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2-8 Penjuru Tech Hub
SINGAPORE 608782

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info@awatrahana.com
Unit D-3A-3A & D3A-05
Level 3A, Menara Mitraland
No13A Jalan PJU 5/1 , Kota Damansara
47810 Petaling Jaya Selangor Malaysia



With any buildings or structures, the floor is probably the area subjected to the greatest amount of wear and tear as a result of human flow and movement of equipments. Therefore, it is imperative that the right floor coating is selected to ensure maximum durability.

HYDURA is specifically designed to cater to the different requirements needed for various floor systems for different building structures. Our system consists of universal components for every different system, hence simplifying the application workability and enabling self-application.

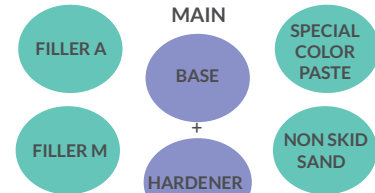
PRODUCT DETAILS

- **Hydura Primer:**
High Performance Solvent-Free Primer
- **Hydura SL:**
High Performance Solvent-Free Self-Levelling Epoxy Coating
- **Hydura Tex:**
High Performance Solvent-Free Self-Smoothing Epoxy Coating Artistic typed coatings
- **Hydura Mortar:**
High Performance Solvent-Free Epoxy Mortar
- **Hydura AS:**
High Performance Water Based Epoxy anti static flooring system
- **Hydura Mortar C:**
High Performance Self-Levelling Epoxy Cement Mortar
- **Hydura WB 500:**
Water Based Epoxy breathable coating
- **Hydura WBPu Mortar:**
High Performance Self-Levelling Water Based Polyurethane Mortar

WIDE RANGE OF APPLICATIONS



UNIVERSAL MAIN UNIVERSAL



PERFORMANCE DATA

- Salt Spray Test 1000 hours (ASTM B117)
- Impact Resistance (ASTM D2794)
- Abrasion Resistance (ASTM D4060)
- Tensile Strength (ASTM C-307)
- Compressive Strength (ASTM C-579)
- Standard test method for effects of household chemical on floor finish (ASTM D1308)

PRODUCT COMPONENT

SOLVENTLESS SYSTEM

PRODUCT	PRIMER	COATINGS	SELF LEVELING	TEXTURE	MORTAR	CEMENTITIOUS MORTAR
THICKNESS	0.1-0.2mm	0.5-1mm	1-2mm	3-5mm	3-5mm	3-5mm
SYSTEMS	PRIMING					
COMPONENT	BASE					
	HARDENER					
	FILLER A			—		FILLER M
	—	COLOR PASTE				
	—				NON SKID SAND	
—			COLOR FLAKE / STONE		CEMENT AGGREGATE	

WATER BASED SYSTEM

PRODUCT	PRIMER	EPOXY			POLYURETHANE		
		FINISH	SELF LEVELING	ANTISTATIC	FINISH	SELF LEVELING	PU MORTAR
THICKNESS	0.1-0.2mm	0.2-0.5mm	1-2mm	—	1-2mm	1-2mm	3-5mm
SYSTEMS	PRIMING						
COMPONENT	BASE	WATER BASED EPOXY			WATER BASED POLYURETHANE		
	HARDENER	HARDENER			HARDENER		
	FILLER A	COLOR PASTE					
	—	—	COLOR FLAKE / STONE		—	CEMENT AGGREGATE	

SYSTEM BENEFITS

- Highly Durable
- Good Chemical Resistance
- Good Abrasion Resistance
- Self-Levelling
- Non-Porous
- Easy to Clean
- Universal Component for Different Systems
- Available in a Wide Range of Colours

COLOURS AVAILABLE



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+65 6898 2314

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SINGAPORE 608782

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Unit D-3A-3A & D3A-05
Level 3A, Menara Mitraland
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47810 Petaling Jaya Selangor Malaysia

STABILIS DTM (Direct-to-Metal) coating series is a one-step solution to providing the ultimate protection. Our specially formulated coating series, which is based on the self-priming mechanism, can be directly applied to substrate without the need for any primer coat.

CONVENTIONAL SYSTEM

Requires both a primer and a finish coat for better adhesion to metal substrates and enhancement to durability

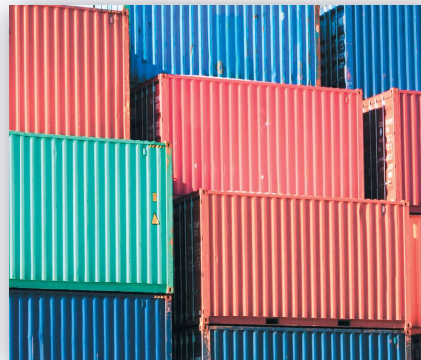
STABILIS DTM

Eliminates the need for a primer coat by functioning as both a primer and finish coat without sacrificing the performance

CONVENTIONAL SYSTEM



STABILIS DTM



BENEFITS

- Good durability in a wide range of corrosive environment
- Easy application methods - Spray, Brush or Roller
- Excellent physical properties such as impact, toughness, abrasion resistance and good weathering resistance
- Good corrosion resistance properties
- Suitable for primer coat, direct-to-metal or finish coat system
- Various colour selections and quick supply with auto-tinting machine
- Save the hassle to apply primer coat

PRODUCTS

STABILIS DTM **S**

HIGH GLOSS FINISH EPOXY ALKYD PAINT

STABILIS DTM **A**

SEMI GLOSS EPOXY ACRYLIC TYPE FINISH

STABILIS DTM **V**

PREMIUM EPOXY VINYL TYPE

STABILIS DTM **E**

1K EPOXY CO-GALVANIZING PAINT



CONVENTIONAL SYSTEM

VS

STABILIS DTM

✓	GOOD MECHANICAL PROPERTIES	✓
✓	GOOD ANTI-CORROSION	✓
✓	EASY APPLICATION	✓
✗	ONE PAINT THAT ACTS AS BOTH PRIMER AND FINISH COAT	✓
✗	FASTER TURN-AROUND TIME	✓
✗	COST REDUCTION	✓

DISTRIBUTOR IN SINGAPORE :

SUN HAI ENGINEERING & TRADING

+65 6898 2314

+65 6898 2421

enquiry@coolgalv.com

4 Penjuru Place #01-18,
2-8 Penjuru Tech Hub
SINGAPORE 608782

DISTRIBUTOR IN MALAYSIA :

AWATRAHANA SDN. BHD.

+603 7628 4588

+603 7628 4587

info@awatrahana.com

Unit D-3A-3A & D3A-05
Level 3A , Menara Mitraland
No 13A Jalan PJU 5/1, Kota Damansara
47810 Petaling Jaya, Selangor Malaysia

Stabilis S Primer is a one-component general purpose modified alkyd primer coatings with good corrosion protection for heavy duty application on steel structures.

PRODUCTS

S RED OXIDE PRIMER

- Economical general purpose primer
- Fast application and drying
- Same day recoatable
- Easy to apply by brush, roller or spray

S MIO PRIMER

- General purpose alkyd primer
- Fast application and drying
- Same day recoatable
- Easy to apply by brush, roller or spray
- Good impact resistance and rust inhibitive property
- Covers scratch line and provides metallic effect

S ZINC PHOSPHATE PRIMER

- General purpose anti corrosion primer
- Fast application and drying
- Same day recoatable
- Easy to apply by brush, roller or spray
- Reinforce with zinc phosphate rust inhibitive pigment



BENEFITS

- Good durability in wide range of corrosive environment
- Easy to use - Spray, Brush or Roller
- Excellent physical properties such as impact, toughness and abrasion resistance
- Good corrosion resistance properties
- Suitable for primer coat or direct-to-metal coating system

Stabilis S Finish is a one-component general purpose modified alkyd topcoat with good weathering performance and high gloss finish for heavy duty applications on metal or wood.

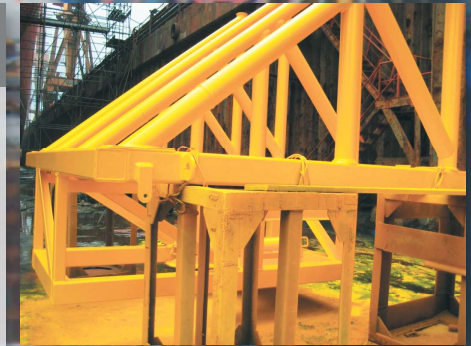
PRODUCTS

S TOPCOAT

- General purpose glossy alkyd enamel
- Fast application and drying
- Same day recoatable
- Easy to apply by brush, roller or spray
- Good weathering resistance

S METALLIC

- General purpose glossy and elegant metallic finish
- Fast application and drying
- Same day recoatable
- Easy to apply by brush, roller or spray
- Good weathering resistance



AREAS OF APPLICATION

- Shop or Field finish for structural ferrous metal and wood
- To restore beautiful look of metal and wood
- To repaint/repair aged or previously painted metal and wooden structures

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