



LINDBLAD SOLUTION PRESENTS:





MAD PRODUCTS.

(MARINE ARMOR DEFENCE)



MAD Armor:

- Specifically designed to restore, renovate and extend asset life for facilities and properties operating in the harshest conditions (Arctic, Tropical & Marine). Applying this coating during construction and/or during refurbishments, can significantly help lower future maintenance costs, as the coating will protect 99% of all substrates for a very long time. MAD Armor is water based, mold & mildew resistant, acid resistant, rust preventative, very low VOC, waterproof, vapor barrier, non-toxic and flame retardant. MAD coating has a 100% elongation & 1500 PSI tensile strength.



MAD Shark:

- Top coat for floors utilizing a proprietary grit to create a non-slip surface to endure years of protection from heavy traffic, all environments, chemicals, acids, industrial and marine attack, mold & mildew, rust preventative, very low VOC, waterproof, vapor barrier, non-toxic & flame retardant. MAD Shark has 15,000 PSI tensile strength. MAD Shark can greatly restore and enhance flooring, as well as reduce overall maintenance costs. MAD Shark has superior strength and does not crack or fade due to the underlying coating technology and its flexing ability. MAD Shark can also be sanded to a fine smooth surface.



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- MAD Fiber:
- Uses proprietary micronized fiber & formula as a filler for larger cracks, holes, crevices or surface defects. 18,000 PSI tensile strength & minimal elongation.



- MAD Bond:
- Advanced water-based Bonding Agent & Primer used to coat porous substrates prior to MAD coating application.



- MAD Cleaner:
- To maintain MAD coating surfaces, MAD Cleaner was developed in 2019 as a water-based liquid scrub to provide easy maintenance & cleaning.



ABOUT MAD PRODUCTS! MAD (MARINE ARMOR DEFENCE)

MAD Products are designed as a marine grade industrial coating for heat reduction, waterproofing, corrosion protection and more:

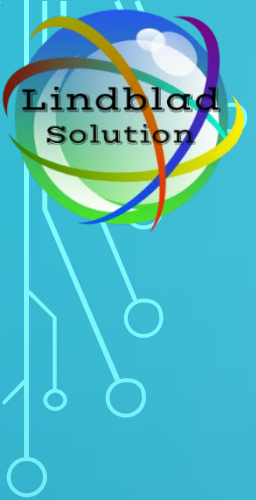
- Long-term life protection and extension
- Lowering maintenance & facilities cost
- Reducing energy costs
- Application in 99% of all substrates



General characteristics of MAD coating:

- All green water based coating
- 49 Years manufacturing in USA
- Shipping world wide (Including air-freight)
- Long-term asset protection
- Flame resistant
- Single component
- Any color can be made of the RAL K7 chart
- Method of application is either: Dipped / Brushed / Rolled / Sprayed





Environmental Assessment

- All raw materials used for the manufacture of MAD products are environmental green and recyclable, MAD is an water based product pushing the limits of being an all green company.
- A Environment Assessment was conducted on June 9, 2017 to meet UN (United Nations) standards, for Mad products to be used in Africa for development projects.
- The manufacture and application of any MAD product poses no significant risk of introducing any pollutant into the environment. (Water source & Wildlife)



Flame Resistant

- MAD products has an ABS & IMO fire rating (FPT Vode Part 5) MAD products flammability performance passed the criteria for Floor Coverings & Primary Deck Coverings. MAD products are exposed to extreme heat & flames, the coating does not catch fire, but simply chars and does not cause any toxic smoke.
- MAD products will perform up to a temperature of +200F / +93 Celsius.





Anti UV (Ultraviolet Lighting)

- MAD products protects substrates & materials from UV lighting. Blistering exposure to sun (Ultraviolet lighting) is a strong corrosive element, MAD products ultimate formula is designed to manage the UV lighting and other elements for great lengths. White is the premium protection color because of the massive reflectivity attributes, but all other colors last +10 years before the color starts to fade but still it gives great protection.



Low VOC 2% (Volatile Organic Compounds)

- MAD products has a low VOC; 2%.
- VOC's are organic chemicals that have a high vapor pressure at ordinary room temperature and is safe to use without protection gear. MAD products has a subtle odor like latex wall paint.





Application.

Application on 99% of all substrates: Steel, Aluminium, Glass, Concrete, Tile, Wood, Canvas, Fiberglass, Foam, Textile, Plastic (with plastic adhesive), etc.

Method of application is either: **Dipped**/**Brushed**/**Rolled**/**Sprayed**

The surface must be clean, dry and stable.



Return on Investment (ROI).

MAD products have an ROI factor!

Long-term preservation of any substrate MAD products is applied to.

– Pretty much anything you want to protect for a long time!

You will save in:

- Application & Maintenance costs
- Facilities & Repair costs
- Electricity & Heating costs
- Cooling & Cleaning costs





MAD Armor is snow & ice Advoidant!

MAD Armor has very little friction and does not allow snow and ice to stick.

Full spectrum freeze and thaw cycle.

MAD Products perform well all the way down to – 73 Celsius.

Anti-Fouling!

Fouling is an unwanted surface-growth phenomena (barnacles & other marine organisms) on a component, system or substrate. (Underside hull of a vessel)

MAD Armor is Anti-Fouling and can be used to coat substrates under water. This does not facilitate growth or attachments of any foreign bodies to substrate coated with MAD Products.

– Submerged areas need special combination using MAD Shark & MAD Armor. MAD Armor has very little friction and is very slipperywet. (Tested on a Jetski, increased speed of 5 knots, 7%.)

Ideal Applications:

Hulls, Equipment, Hardware, Sensors, Sonars, Buoy,

Pools, Ropes, Wires, Chains, Pipes & Oil drills.





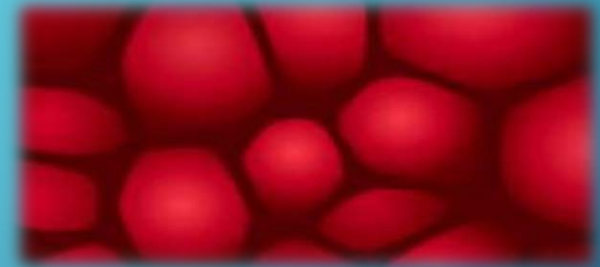
HOW IS MAD PRODUCTS DIFFERENT?

The coating is CLOSED CELL which means it does not breath and allow any air / gas or liquid to penetrate and touch the surface which was coated with MAD products.

The issue is: All other paint products are OPEN CELL and will deteriorate over a shorter period of time.

OPEN CELL meaning liquids, gases and toxins will slowly penetrate through the paint / coating much faster.

Closed Cell



Open Cell





PRODUCT INFORMATION.

Name	(SW) Macropoxy 646-100	PPG - PSX 700	AWLCRAFT 2000	International Intercryl-428	Imron Marine MS600	MAD Products
Type	Fast-drying polyamide epoxy	Two Component siloxane coating	Two Component Acrylic Urethane	One Component Acrylic emulsion	Polyester-based Polyurethane	Closed-cell Marine Coating
Coverage (/gal.)	116 ft ² / 10.8 m ²	289 ft ² / 26.8 m ²	191 ft ² / 17.7 m ²	106 ft ² / 9.7 m ²	272 ft ² / 25.3m ²	100 ft ² / 9.2 m ²
Application	steel & concrete	stainless, galvanized	Fiberglass	Steel, galvanized, concrete	Fiberglass,metal	99% (Not silicone)
Thickness	7.0 mils 175 microns	5.0 mils 125 microns	3.0 mils 75 microns	8.0 mils 200 microns	2.5 mils 62.5 microns	11 mils 270 microns
Fire Hazard						X
VOC	<100 g/L	<164 g/L	472.5 g/L	542 g/L (43)	419 g/L	>50 g/L
Odor	Low Odor	Characteristic	High	High/Low	High	Odorless
Immersion	1 year	X	X	X	X	+25 years
Gas Barrier	X	X	X	X	X	+20 years



PERFORMANCE CHARACTERISTICS.

Name	(SW) Macropoxy 646-100	PPG - PSX 700	AWLCRAFT 2000	International Intercryl-428	Imron Marine MS600	MAD Products
Reflectivity	Semi-Gloss	High-Gloss	Gloss-Clear	Low sheen	Gloss	97.3%
Tensile Strength	1037 psi	N/A psi	N/A psi	N/A psi	N/A psi	1500-18,000 psi
Rust Preventative	12,000 hours (1.3y)	N/A hours	X	N/A hours	N/A hours	+10 years
Acid Resistant	N/A ph	N/A ph	Not Measured	N/A ph	N/A ph	1 - 14 ph level
Anti Mold/Mildew	X	X	X	X	X	✓
Anti Fouling	X	X	X	X	X	✓
Anti Snow & Ice	X	X	X	X	X	✓
Freeze/Thaw cycle	X	X	X	X	X	✓
Temp. Range	250 F° / 121°C -N/A°C	250 F° / 120°C -N/A°C	Not Measured	N/A	N/A	+200 F° / -100 F° + 93°C / - 73°C



PRODUCT CHARACTERISTICS.

Name	(SW) Macropoxy 646-100	PPG - PSX 700	AWLCRAFT 2000	International Intercryl-428	Imron Marine MS600	MAD Products
Flash point	61 F°/16°C	205 F°/96.1°C	102 F°/39°C	214 F°/101°C	39 F°/3.8°C	No flash point
Dry Time	8 h (25°C)	3 h (20°C)	24 h (25°C)	4 h (25°C)	12 h (21°C)	2 h (77 F°/ 25°C)
Cure Time	7 days	7 days	14 days	10 days	7 days	7 days
Clean Up	Oxsol 100	Thinner 90-53	Thinner	Thinner GTA991	Thinner Axalta107	Water/Thinner
Hazards: 1 word	Danger	Danger	Flammable	Danger	Danger	None
Eye contact	Serious Eye Damage	Serious Eye Damage	Serious Eye Irritation	Serious Eye Damage	Burning of the eyes	Unlikely to be harmful
Skin contact	Causes skin Irritation	Severe skin burns	Causes mild skin Irritation	Severe skin burns	Causes skin Irritation	Unlikely to be harmful
Component	(Part A & B) +primer	(Part A & B) +primer	Two part top coat Finish	One part	Three part system	One Part
Elongation/flex	180° angle bend	Minimum	Minimum	Minimum	Minimum	700%



PRODUCT DETAIL.

Name	(SW) Macropoxy 646-100	PPG - PSX 700	AWLCRAFT 2000	International Intercryl-428	Imron Marine MS600	MAD Products
Transportation	No Air-freight	No Air-freight	No Air-freight	No Air-freight	No Air-freight	Shipment, Cargo & Air-freight
Insulation Factor	N/A	N/A	N/A	N/A	N/A	Equivalent of R19
UV Stable	<3 years	<4 years	<6 years	<4 years	<5 years	+10 years
ROI Factor	N/A	N/A	N/A	N/A	N/A	Yes
Repair / Reapply	Prep, Primer, Apply	Power-toll, Primer, Apply	Complete bare surface	Prep, Primer, Apply	Prep, Primer, Apply	Clean, Apply
Pot Life	4 hours	4 hours	N/A	Not applicable	4 hours	Useable if not dry
Shelf Life	36 months	At least 36 months	36 months	N/A	24 months	60 months
Warranty	N/A	N/A	N/A	N/A	N/A	5-10 years
Cost per gal.	\$231	\$249	\$226	\$139	\$283	\$99



WHO IS USING MAD PRODUCTS TODAY?



This was a short presentation that we had the pleasure of presenting to you, should you wish to have more in-depth information on these fantastic products, so do not hesitate to contact us.

We can provide you with all kinds of data and information on these amazing MAD products.

Thanks so much.





LINDBLAD SOLUTION, GLOBAL CONSULTING!

FOR INQUIRIES AND QUESTIONS, PLEASE CONTACT:



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