CATALOG 2017







About Us

DryWired[®] is an award-winning Los Angeles based clean tech firm that distributes advanced surface nanotechnologies globally. DryWired's mission is to harness nanotechnology as a catalyst for change. Our Eco-friendly protective thinfilm coatings make buildings more energy efficient, surfaces cleaner, lessen e-waste, reduce city air pollution and make food last longer. We are committed to solving global challenges through scientific partnerships with private laboratories and leading universities.

Company History

Founded in 2012 and launched at CES in January 2013 as a start-up offering a single nanocoating solution for protecting mobile phones, DryWired has grown into a global nanotech firm with over 100 complimentary licensed nanocoating technologies. We search the world's laboratories for revolutionary nanotech and help bring innovation to market in collaboration with the award-winning scientists behind the discoveries. Unlike other companies who offer a single technology solution regardless of a client's needs, we leverage our team of chemical engineers and materials scientists in order to find the best solution for each individual customer. Our customized, non-toxic, nanocoating products are all made in the USA, Europe and Japan.

The DryWired Team

Our team's distinctive background ranges from materials science, chemical engineering, military support operations, plasma processing and media production. We wanted diversity in our team to match the diversity in our technology's range of applications. Our nanocoatings and surface modification technologies were developed and refined over the last 30 years by award-winning American, European and Asian scientists. DryWired's licensed technologies are protected by dozens of international patents and trade secrets.

Our coated products have been recognized with the following:





reddot award 2014 best of the best









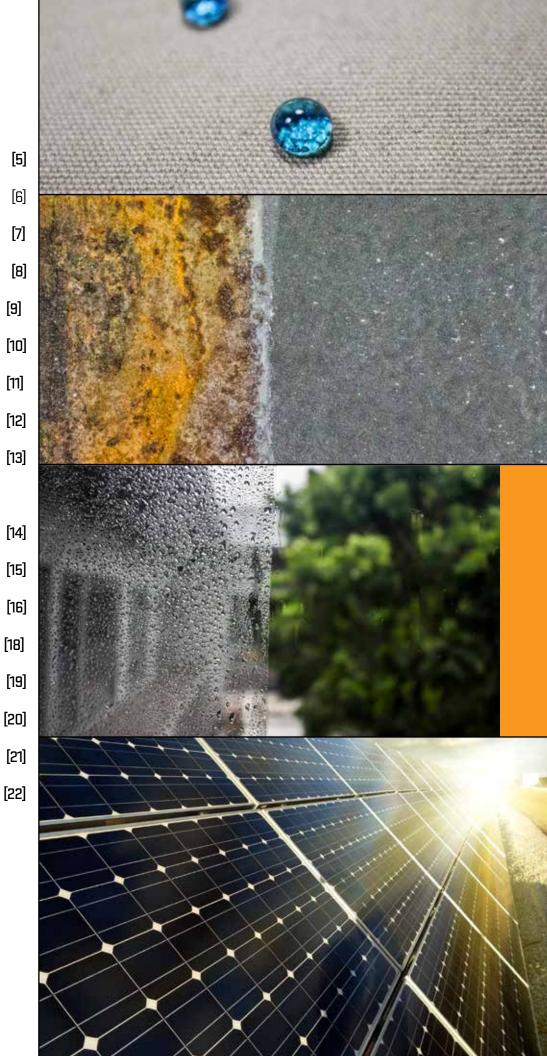
SELECT CLIENTS/R&D PARTNERS



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LIQUID NANOTINT THERMAL INSULATION FOR GLASS



OVERVIEW

DryWired[®] Liquid NanoTint is a thermal insulation coating ideal for single-pane glass and polycarbonate surfaces. Applied like a paint, Liquid NanoTint is capable of blocking 100% of Ultraviolet (UV) rays, up to 95% of Infrared (IR) rays and maintaining up to 78% Visible Light Transmission (VLT). Through the combination of solvent borne metaloxide nano-particles and an inorganic adhesive binder, Liquid NanoTint forms a 10 micron thick self-leveling clear coat that bonds directly to glass and polycarbonate surfaces. Only available for purchase in the US.



USES

FEATURES

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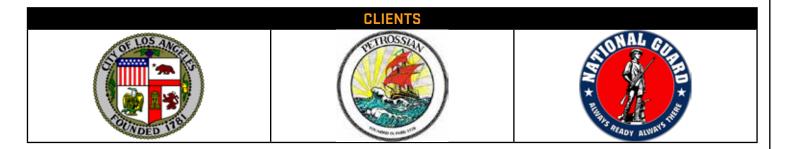
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- Reduces seasonal heating/cooling costs
- Residential glass
- Glass manufacturing

Commercial glass

- Polycarbonate materials
- Skylights

- Cost effective
- Environmentally friendly
 - Easy application by custom paint roller
- Can be applied on top of or under window film
- Fully cures in 14 days
- Zero off gassing when fully cured
- 10 Year Warranty



HEAT SHIELD: ROOF PROTECT THERMAL INSULATION PAINT



OVERVIEW

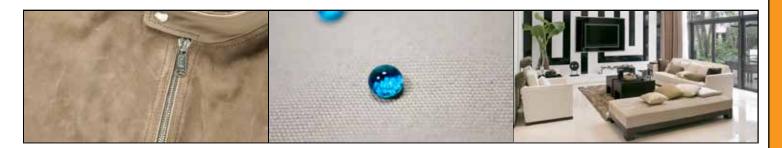
DryWired Heat Shield: Roof Protect is an advanced thermal insulation specifically designed for roofing materials. This proprietary technology combines well-known reflective properties with cutting-edge materials that radiate heat away from the surface. This material is a cost-effective alternative to traditional roofing insulation. Not only does Heat Shield: Roof Protect provide cost savings in terms of energy bills, it also provides a water and moisture barrier to roofing, increasing the longevity of the roof itself.

ABRASION RESISTANT	WATER BARRIER	ECO-FRIENDLY	REFLECTIVE

US	ES	FEATURES	
	Asphalt shingles Clay tiles Concrete tiles Wood shingles Slate tiles Metal roofing	 Exceptional bond strength Can be applied without primer High tensile strength Abrasion resistant Water and moisture barrier Provides protection from harmful UV rays Mold resistant without the use of harmful chemicals 1 coat dries to 6 mil Easily applied by brush, roller or HVLP paint sprayer Solar reflectance index (SRI) over 108 	RRC
		CLIENTS	



TEXTILE SHIELD STAIN/WATER/OIL REPELLENT NANOCOATING



OVERVIEW

DryWired[™] Textile Shield is a water-based, non-toxic, water-repelling nanocoating that can be applied as a transparent spray or liquid dip to natural and synthetic fibers. Unlike other hydrophobic fabric coatings, Textile Shield won't change the look, feel or breathability of the fabric. In laboratory testing, our coating achieved 150 degree super-hydrophobic contact angles on natural and synthetic textiles. In addition, Textile Shield is resistant to harsh detergents and demonstrates excellent selfcleaning properties with continuous performance up to 30 washes. Textile Shield has a variety of applications including: apparel, automotive fabrics and indoor/outdoor upholstery.

COMPLETELY INVISIBLE	HYDROPHOBIC	REDUCES ODOR	NON-TOXIC
SES	FEATURES		
Cotton Suede Canvas Corduroy Flannel Wool Silk Linen Polyester	 Water-repellent Oil-repellent Easy-to-clean effect Non-toxic/water-bas Protection of fibe infiltration of dirt Odorless Invisible to the human Breathable 	spray Wash ed Lasts ers from the Temp	ile spray application (trigg ver included) ing and cleaning agent resista s up to 30 washes perature resistant
adidas		IOTEL	FACTORY

HYDROPHOBIC

WOOD SHIELD STAIN/WATER/OIL REPELLENT NANOCOATING



OVERVIEW

DryWired[™] Wood Shield is a non-toxic, water-based protective nanocoating solution for natural wood surfaces. This Eco-friendly coating provides an invisible shield against water and oil, creating a stain resistant surface. Wood Shield, unlike other protective wood products, does not change the appearance, feel, or breathability of the surface. Allowing the wood to maintain breathability

permits moisture to evaporate from the wood, preventing the wood from rotting. Wood Shield eliminates the need for chemical wood cleaners by demonstrating selfcleaning properties with the use of only water. Wood Shield has a variety of applications including: wood structures, construction lumber, indoor/outdoor furniture and fencing.

T	
COMPLETELY INVISIBLE	HYDROPHOBIC REDUCES ODOR NON-TOXIC
USES	FEATURES
 Sandalwood Birch Cedar Oak Redwood Wicker Thatch Bamboo 	 Water-repellent Dil-repellent Non-toxic/water-based Stain resistant UV stable Easy-to-clean Does not alter appearance Maintains natural feel of the substrate Breathable
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MICROPOROUS STAIN/WATER/OIL REPELLENT NANOCOATING



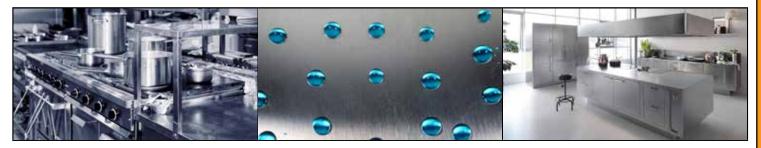
OVERVIEW

DryWired[®] Microporous creates a molecular barrier on surfaces to repel water, oil, and other contaminants. This product was specifically designed for microporous

surfaces with porous structures less than 2 nanometers to prevent staining and grime build up, while creating an easy-to-clean surface.

T			7	
COMPLETELY INVISIBLE	STAIN-BLOCKER	ECO-FRIENDLY		NON-TOXIC
USES	FEATURES			
 Polished materials including: Marble Granite GFRC Stoneware Sandstone Basalt Quartzite Schist Celador Slate 	 Water-repellent Oil-repellent Blocks stains Easy-to-clean effect Temperature resistant UV-stable Abrasion resistant Dries in minutes Prolongs life of mater Does not alter look substrate 	ials	-	ep solution ous sealant 24 hours

PLASTIC & METAL STAIN/WATER/OIL REPELLENT NANOCOATING



OVERVIEW

DryWired[®] Plastic & Metal is a coating that provides water and oil repelling properties to any non porous synthetic or metallic surface. This coating provides stain-resistance

and easy-to-clean properties without affecting the appearance or texture of the substrate. Applied by simple spray and wipe application.

	HYDROPHOBIC	ECO-FRIENDL	7	NON-TOXIC
 USES Iron Stainless steel Aluminum Brass Copper Polystyrene (PS) Polypropylene (PP) Polyethylene Terephthalate (PET/PETE) High-density Polyethylene (HDPE) Polyvinyl Chloride (PVC) 	 FEATURES Water-repellent Oil-repellent Easy-to-clean effect Invisible to the hum thickness: 100-150 r UV-stable Abrasion resistant Resistant to temperative 	ian eye (coating 🔸 im)	Chemica	ble application (do-it-yourself) al resistant seconds, cures in 24 hours
	CLI	ENTS		
GOLDEN WEST	W(DLF		VALE

GLASS & CERAMIC STAIN/WATER/OIL REPELLENT NANOCOATING



OVERVIEW

DryWired[®] Glass & Ceramics is a water-repelling coating designed to enable smooth glass and ceramic surfaces to remain cleaner for longer. The hydrophobic and

oleophobic effects allow contaminants such as grease, oil, lime and environmental pollutants to be easily removed without applying abrasive agents or strong solvents.

F			
COMPLETELY INVISIBLE	HYDROPHOBIC	ECO-FRIENDLY	NON-TOXIC
USES	FEATURES		
 Float glass Architectural glass Automotive glass Porcelain Ceramic glaze Zirconia Soda-lime glass Photochromic glass 	 Water-repellent Oil-repellent Strong non-stick prop Easy-to-clean effect Invisible to the huma thickness: 100-150 nr UV-stable Abrasion-resistant 	perties in eye (coating	Resistant to temperature change Breathable Simple application (do-it-yourself) Chemical resistant to pH < 13 Dries in seconds, cures in 24 hours

CLIENTS

UBER

AVENTINE HOLLYWOOD

BARBEATERY

PERMA-CLEAN GLASS NANOCOATING



OVERVIEW

DryWired® Perma-Clean Glass is an easy-to-apply, singlestep solution for any glass surface. This anti-static property allows for dust and other pollutants to be easily removed, reducing the frequency of cleaning. The hydrophilic property allows for glass to be cleaned using less water than was used without the coating, also eliminating the need for harsh chemical cleaners. PermaClean Glass is applied by a squeegee and microfiber cloth with a single swipe that dries within a few seconds.

Ideal for window panes, automotive glass, skylights, mirrors and glass door panes.

T			
COMPLETELY INVISIBLE	HYDROPHOBIC	ECO-FRIENDLY	NON-TOXIC
JSES Float glass Architectural glass Automotive glass	 FEATURES Hydrophilic Anti-static Easy-to-clean effect Transparent Weather resistant Dries in seconds, cure temperature in 14 day Strong adhesion to a 	 1-part s Single Contac Does n 	nometer thickness solution application It angle to water is < 5° ot alter the look of glass
ЛИНОС	DEERE	KOF	e w e a r

PCO AIR TREATMENT SYSTEM



OVERVIEW

The PCO AIR TREATMENT SYSTEM unit actively outputs a continuous stream of multi-clustered ions which attack and destroy volatile organic compounds and gases such as methane and BTEX. The process known as active

photo-catalytic oxidation (PCO) is safe for both humans and animals. This system complements the LumActiv's photo-catalytic coatings by promoting ion circulation in large spaces.

OZONE-FREE

USES	FEATURES
 Schools Hospitals Hotels Airports Restaurants Public infrastructure Public transportation Offices Shopping centers 	 Generates a process called active photo-catalytic oxidation (PCO) Forms and releases large clusters of positively and negatively charged ions: multi-clustered ions (MCIs) Attacks microbes (bacteria, viruses, volatile organic compounds (VOCs), allergens, molds, and odors), wherever they exist in the indoor environment Continues to treat the environment with MCIs on a continual basis Has been proven unequivocally by independent universities and laboratories on a global basis to be highly effective and safe Is at work in many clinical, commercial, and residential buildings, as well as on the international space station

ATTACKS MICROBES



REDUCES ODOR

CLIENTS

ECO-FRIENDLY



101X ELECTRONICS NANOCOATING



OVERVIEW

DryWired[®] 101X is a hydrophobic and oleophobic C6 fluorocarbon-based liquid chemistry designed specifically for PCBs and electronic assemblies, though has been used for a wide range of applications. 101X provides a water, oil, and weather resistant surface, without compromising appearance or functionality. Little to no masking is required with 101X when applied at a thickness less than 800nm. Typical application thickness is 400nm. Industries where 101X is currently being used include consumer electronics, avionics, aerospace, unmanned systems, and military. Adheres well to a wide variety of material substrates including plastic, glass, metal and ceramic.

	HYDROPHOBIC ECO-FRIENDLY NON-TOXIC
 PC boards Biomedical devices Drone components Avionics Micro motors Ball bearing tracks Ink-jet print heads Hard disk drive components Atomic force microscopes 	 FEATURES Transparent Contact angle to oil >80 degrees Contact angle to water >120 degrees Surface tension: 8-10 dynes/cm (atmospheric cure); 5-7 dynes/cm (heat cure) Non-flammable Heat stability: 150°C (continuous); 250°C (one hour) None Source tension: N
Procter&Gamble	Rockwell Collins

SUPER HYDROPHOBIC COATING



OVERVIEW

DryWired[®] Super Hydrophobic Coating (SHC) is a superhydrophobic coating formulated to repel rain, snow, and ice. Option of a conveniently packaged aerosol can, which is easy-to-apply as a single-step. The liquid solution can be applied by brush or roller to form a super-hydrophobic film to repel the harshest weather conditions. Through the modification of chemical and physical surface

communications

properties, this formula is able to achieve contact angles over 160 degrees. SHC is primarily designed for application to satellite dishes and other outdoor communications fixtures to mitigate signal attenuation caused by natural elements. However, it can be used for a variety of applications that can benefit from its unique ability to repel rain, sleet, snow and greatly reduce ice build up.

DIRECTV

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	COMPLETELY INVISIBLE	H	IYDROPHOBIC	ECO-FRIEND	LY	NON-TOXIC	
US	ES	FEAT	URES				
	Radomes Satellite dishes Radars Antenna arrays Windmills Outer airplanes parts: nosecone, wing, rudders, horizontal stabilizers	 FEATURES Super hydrophobic (contact angle >160 degrees) Oleophobic Single-step application Dries within minutes Adheres to a variety of substrates including plastic, metal, and painted surfaces White matte finish Intended for use on surfaces that will be left untouched and not exposed to abrasion 					
			CLI	INTS			
	13		FOREST	SERVICE			

LUMACTIV PHOTOCATALYTIC COATING



OVERVIEW

LumActiv[®] is an Eco-friendly coating that combines the air-cleaning properties of titanium dioxide (TiO_2) photocatalysis with advances in nanotechnology. TiO_2 , in its rutile form, is commonly used as a white pigment in everything from wall paint to milk. When this same material is heated to extreme temperatures, the TiO_2 changes structure to the anatase form and becomes photocatalytic. The coating works by activating hydroxyl radicals during photocatalysis, and breaks down harmful organic airborne pollutants and VOCs on building surfaces. The DryWired[®] difference involves the activation of LumActiv ${\rm TiO}_{\rm 2}$ by not only UVA light, but into the visible light range as well.

With DryWired[®] LumActiv the nano-sized particles allow for denser surface area coverage resulting in greater photo-catalytic activity. Unlike other TiO₂ coatings, DryWired's LumActiv reacts with both UV and visible light making it suitable for both indoor and outdoor applications without requiring specialty lighting. LumActiv coatings have useful characteristics such as self-cleaning, VOC pollution reduction, algae/moss prevention, air purification, odor neutralization and UV protection.



USES

	Schools	 Triggered by light energy, organic compounds decompose on a molecular 		
	Hospitals	level		
	Hotels	 Creates a super hydrophilic surface allowing water to wash away 		
•	Airports	contaminants		
	Restaurants	Reduced need for building cleaning and maintenance as dust is decomposed		
	Public infrastructure	Improves air quality in dense urban environments		
•	Public transportation	Mold and fungus prevention on building facades		
	Offices	Can be applied toward LEED credits for air quality		
•	Shopping centers	Solvent-free & non-toxic		
		 Create healthier work & home environment 		
	I IIMACTIV GLASS			

LUMACTIV GLASS	LUMACTIV MULTIPURPOSE	LUMACTIV INDOOR	LUMACTIV PRIMER
Intended for use on glass	Intended for use on all	Increased light-sensitivity	Non-reactive base coat to
surfaces	surfaces other than glass	for use in indoor	protect organic surfaces
		environments	

RUST PROTECT

RUST PROTECT COATING



OVERVIEW

DryWired® Rust Protect is a dual-component direct-to-metal (DTM) coating that protects a wide variety of ferrous materials, including hard rust metal surfaces from continued deterioration. Rust Protect dries smooth, creating a strong bond between rusted metal surfaces and application-specific top coats. Rust Protect also provides a unique method to bond metal substrates to concrete. Rust Protect is environmentally friendly due to its use of recycled industrial material and extremely low VOC level.

ISO INTERNATIONAL	DryWired [®] Rust Protect has been tested • ISO 12944 • ASTM B117-11 • ASTM D1654 • ASTM B117-D1654	to the following standards ASTM D3359 ASTM D4060 ASTM D4541

NO BLASTING/GRINDING

FLEXIBLE

FEATURES

- Concrete encased metal Metal stairs and ramps
- Corrosion Under
- Insulation (CUI)
- Exhaust systems
- Corrugated metal roofs Rebar
- Steel structures

USES

- Boilers & furnaces
- Metal doors
- Pipe exteriors
- Patching of cementbased surfaces

- 25% cementitious yet forms strong bonds to nearly all metal surfaces
- Adhesion is maintained on surfaces 5 with rust
- Maintains flexibility, bending as much as 90 degrees without cracking or lifting when properly applied
- Can be applied to "live" surfaces that expand and contract due to internal pressure changes or external influences
- No abrasive blasting or grinding is required prior to application- power

washing and degreasing is adequate

ECO-FRIENDLY

- Low VOC (< 17g / Liter) •
 - Approved for continued warranty coverage for use with Sherman Williams and Carboline top coats
- Saves maintenance costs and the need to replace materials
- Extreme temperature resistance (-80°F to +500°F)
- Easy application and clean-up
- Odorless

BEYOND PLANT ELICITOR AMENDMENT



OVERVIEW

DryWired[®] Beyond PE is an all natural plant amendment that is non-toxic, pesticide free, biological enhancement that revives sick or infected plants, increases seed survival rate, enhances plant growth and improves crop yields by activating natural plant defense processes.

Improvement of a plants natural defenses helps them resist external stresses including: wind sheer, significant temperature changes, osmotic pressure and attacks by phytophagous (plant feeding) life forms, while eliminating the use of pesticides.

Ũ				
IMPROVES NATURAL DEF	ENSES	PROMOTES GROWTH		ECO-FRIENDLY
ISES	FEATI	JRES		
Trees Shrubs Ground covers Bedding plants Houseplants Flowers Turf and sod Vegetables Indoors/Outdoors	 Pr ch St m ex da 	ctivates natural defense processes ovides external stimuli to trigger nanges in plant cells imulates production of secondary etabolites that help overcome sternal natural stresses that can amage trees posts germination & vitality	* * * * * * *	Non-toxic (Derived from crab shells) Stimulate emergence and rooting Enhance plant vigor Promote growth Suppress diseases and pathogens Increase crop yields Improve crop quality



PERMA-CLEAN SOLAR SELF-CLEANING NANOCOATING



OVERVIEW

DryWired[®] Perma-Clean Solar is an easy-to-apply, singlestep application coating designed to increase the efficiency of solar panels. Through it's anti-static properties, Perma-Clean Solar prevents dust and debris build up. Perma-Clean Solar is also self-cleaning given it's hydrophilic properties, which allows unwanted particles to be easily removed with only water rather than harsh chemical cleaners. Not only do the self-cleaning properties allow for an increase in photo-voltaic efficiency, but also lower maintenance costs and frequency. Perma-Clean Solar is completely transparent and does not change the appearance of solar panels.

T			
COMPLETELY INVISIBLE	SAVES WATER	ANTI-STATIC	SELF-CLEANING
USESSolar panels	FEATURES		
	 Anti-static Self-cleaning Transparent Weather-resistant Strong adhesion to su Thickness: 100 nanom Single-step applicatio Cleans easily with wat Lowers maintenance of 	neters n er	
Sun Green			SHERWIN WILLIAMS.

STONE & POROUS STAIN/WATER/OIL REPELLENT NANOCOATING



OVERVIEW

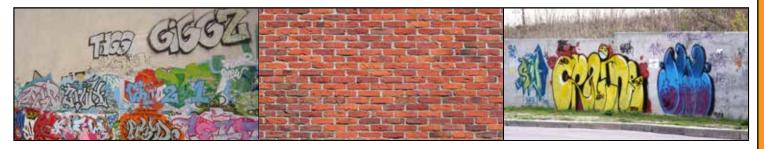
DryWired[®] Stone & Porous is a water-based, non-toxic, hydrophobic nanocoating that can be applied by spray to porous surfaces. Stone & Porous is an invisible, water and contamination resistant, UV stable coating that can be applied to a variety of surfaces including: floors, walls,

building facades, bridges and monuments. This breathable coating binds to the surface at a molecular level, greatly increasing the lifespan of surfaces while preventing weathering and grime build up.

F			
COMPLETELY INVISIBLE	HYDROPHOBIC	ECO-FRIENDL	Y NON-TOXIC
USES	FEATURES		
 Concrete Limestone Sandstone Concrete blocks Porous granite/marble Roof tiles/clay Terracotta 	 Water-repellent Oil-repellent Blocks stains Easy-to-clean effect Non-toxic/water-bas Invisible to the huma Odorless High temperature-res UV-stable/abrasion 	sed an eye ssistant	Absolute frost-resistant Prolongs the life of materials Dries within a few hours, cures in 24 hours
	LOS ANGEL PUBLIC LIF		WACT Disnep Imagineering

HYDROPHOBIC ANTI-GRAFFITI

ANTI-GRAFFITI NANOCOATING



OVERVIEW

This invisible barrier does not allow paints and other liquids to penetrate porous or painted surfaces. Anti-Graffiti provides a cost-effective and environmentally safe way to protect assets from vandalism. It creates an invisible and impenetrable sacrificial barrier that will allow for graffiti to be removed without the need for toxic solvents only hot water. In addition, the coating increases longevity of porous and painted surfaces by providing protection against moisture, humidity and weathering and will not break down due to extreme temperatures or exposure to UV light.

		ECD-FRIENDLY	NON-TOXIC		
USES	FEATURES				
 Real and Artificial stone Concrete Cinder blocks Ceramics Plaster Bricks Limestone Sandstone Painted surfaces 	 the substrate Prevents penetration based liquids and pai Protects from stains a Exhibits a non-stick of Invisible sacrificial pribarrier Does not require use 	No change in appearance or feel of the substratePrevents and unwaPrevents penetration of water or oil based liquids and paintsProtects a pollutionProtects from stains and soiling Exhibits a non-stick characteristic Invisible sacrificial protectivePrevents 			

THANK YOU



CONTACT

TEL: +961 (1) 55 75 32 MOB: +961 (3) 90 44 45 | +961 (3) 75 99 57 EMAIL: INFO@DEKORA-LB.COM BLVD. EL CHIAH | MAR MICHAEL CHURCH - BESIDE BLOM BANK WWW.DEKORA-LB.COM