



SolarFree
WINDOW FILM
weprotectyourasset





المقدمة :

نحن في شركة طرق الحماية للتجارة نعلم أن عملاءك أولوية بالنسبة لك لذلك سعيينا لتأمين منتجات تتفوق على غيرها من منتجات الشركات المنافسة ترتقي لتوقعاتك وتوقعات عملائك وفرنا فريق دعم مميز لعملائنا من التجار وأصحاب المعارض ، لكي يتفوقوا على غيرهم ويحصلوا على الرضا التام بتوفير منتجات متفوقة عن غيرها بشكل مستمر وبدون إنقطاع على مدار الساعة وبتوفير فنيين محترفين للتدريب وموظفين مدربين يستطيعوا إعطاءك أي معلومة أو استشارة فنية عن الأفلام أو عن منتجاتنا الأخرى لذلك نحن شركة طرق الحماية للتجارة الوكلاء الحصريون لشركتي .

element 119

 Solar Free
WINDOW FILM

نتطلع لخدمتكم خدمة تليق بكم بأي مكان وزمان .

SolarFree شركة أمريكية رائدة تسعى منذ نشأتها في مدينة كارسون بولاية كاليفورنيا إلى مشاركة عملائها رغباتهم في التميز ومواكبة التطور الهائل في مجال أفلام العزل الحراري .

تفردت شركتنا بإنتاج سلسلة خاصة صديقة للبيئة تم وضع مواصفاتها و من ثم اختبارها بدقة وفقاً لاحتياجاتكم وبأسعار مناسبة تجمع بين القوة والحدثة ورضا العملاء.

عملنا من خلال مهندسينا في SolarFree على مزج الأداء العالي لتقنية النانو الحديثة مع درجة PET ذات الأداء العالي الجودة لنتج أفلام عزل بمواصفات ذات جودة عالية و وضوح عالٍ للرؤية و بروده ينعم بها قائد المركبة وتتفرد بها واجهات المباني طوال أشهر السنة .

حرصاً منا على إرضاء كافة أذواق ملاك السيارات ، وفرنا أنواعاً مختلفة من سلسلة الأفلام الخاصة بالشركة تشمل أفلام النانو كوبون و أفلام النانو سيراميك ، بالإضافة إلى أفلام المباني عالية الجودة و Safety films و Unti-graffiti films .

مرحباً بك في تجربة مختلفة خصناها لراغبي التميز مع SolarFree .

الضمان

بالإضافة إلى كافة المميزات التي تتفرد بها SolarFree تتفوق الشركة بمنحكم ضماناً مدى الحياة ! هذا يعني بالطبع ثقتنا في أن المنتجات عالية الجودة التي نقدمها لكم ستلامس سقف توقعاتكم وترضي طموحاتكم وتنال رضاكم دائماً .

PROFESSIONAL

Year after year, SolarFree dedicates itself to excellence, research and development. Not only do we strive to enhance the quality of our films, but in consideration of current economic times, we strive to provide our customers with the most competitive prices all the while adhering to the utmost standards of quality. This year, we introduce a new automotive film line that combines the most advanced film coating techniques with modern nano-pigment technologies. With our new line, Sentry, drivers can enjoy the comforts and benefits of superior solar shielding. Sentry is a unique film that surpasses the limits of traditional dyed films and provides a lifetime of color stability at an incredible price point.

SHADE (Charcoal)	5%	20%	35%	50%
UV Rejection %	99	99	99	99
Visible Light Transmission %	2	20	36	50
Visible Light Reflection %	7	7	7	7
Total Solar Energy Rejection %	61	52	45	39
Infrared Rejection %	80	52	40	30

SolarFree wants you to experience nanotechnology at its finest with Artisan, a superior modern automotive film that rejects up to 95% of infrared heat while retaining the benefits of standard solar control film. Artisan allows zero signal interference, 99% UV rejection, and blocks up to 63% total solar energy, so that everyday drivers can remain cool even during the hottest summer days. Artisan's impressive ability lies in its highly-developed construction where superior-grade PET film meets advanced nanotechnology. And because Artisan's clarity is second to none, the everyday driver will not realize that Artisan is actually installed on their windows providing an enjoyable experience for the customer.

SHADE (Charcoal)	5%	20%	35%	50%	65%	75%
UV Rejection %	100	100	100	99	100	100
Visible Light Transmission %	5	20	35	49	66	75
Visible Light Reflection %	6	6	6	6	6	6
Total Solar Energy Rejection %	65	62	59	49	74	45
Infrared Rejection %	95	92	91	59	91	87

SILVER

SHADE (Silver)	5%	20%	35%	50%
UV Rejection %	98	98	98	98
Visible Light Transmission %	5	22	36	50
Visible Light Reflection %	56	48	35	27
Total Solar Energy Rejection	78	73	63	54
Infrared Rejection %	95	80	50	50

BRONZE

SHADE (Bronze)	20%	35%
UV Rejection %	98	98
Visible Light Transmission %	21	35
Visible Light Reflection %	37	26
Total Solar Energy Rejection %	77	63
Infrared Rejection %	90	83

SILVER BLACK

FILM	SILVER BLACK
UV Rejection %	99
Visible Light Transmission %	2
Visible Light Reflection %	8
Total Solar Energy Rejection %	75
Infrared Rejection %	95

WHITE FROST

FILM	WHITE FROST
UV Rejection %	98
Visible Light Transmission %	42
Visible Light Reflection %	20
Total Solar Energy Rejection %	40
Infrared Rejection %	60



BLACK OUT

FILM	BLACKOUT
UV Rejection %	99
Visible Light Transmission %	0
Visible Light Reflection %	6
Total Solar Energy Rejection %	73
Infrared Rejection %	100

WHITE OUT

FILM	WHITE OUT
UV Rejection %	99
Visible Light Transmission %	5
Visible Light Reflection %	85
Total Solar Energy Rejection %	77
Infrared Rejection %	95

SAFETY

FILM (Safety)	2MIL	4MIL	8MIL	12MIL
UV Rejection %	98	98	99	99
Visible Light Transmission %	90	88	87	85
Visible Light Reflection %	11	11	10	10
Total Solar Energy Rejection %	16	16	17	19
Infrared Rejection %	10	10	11	11

ANTI-GRAFFITI

FILM (Anti-Graffiti)	4MIL	7MIL
UV Rejection %	98	98
Visible Light Transmission %	91	91
Visible Light Reflection %	11	10
Total Solar Energy Rejection %	17	19
Infrared Rejection %	8	8

PPF STAMINA PRO



PREMIUM PAINT PROTECTION FILM

1. Hydrophobic coating-Self Cleaning ☐
2. Stain-resistant ☐
3. High-gloss and Nearly Invisible ☐
4. Self Healing. ☐
5. Non-yellowing



TPU thickness	150+/-10%
Density	1.1
Hardness(Shore A)	90A
Tensile Strength	43~45Mpa
Elongation	530%
Gloss Value(60degree)	80>
Abrasion	<3.4g/1000g
UV Resistance(Yellowing)	<1.5@2000hr
Warranty	8 Years

Structure Total 13.5mil

Protection PET 2.0mil

Hydrophobic Coating 0.5 mil

TPU 6.0mil

Removable Adhesive 1.5mil

Matt Liner PET 3.5mil

PPF STAMINA

PROFESSIONAL PAINT PROTECTION FILM

1. Highly Endurance ☐
2. Stain-resistant ☐
3. High-gloss and Nearly Invisible ☐
4. Self Healing. ☐
5. Non-yellowing

TPU thickness	150+/-10%
Density	1.1
Hardness(Shore A)	90A
Tensile Strength	40~45Mpa
Elongation	530%
Gloss Value(60degree)	80>
Abrasion	<3.4g/1000g
UV Resistance(Yellowing)	<1.5@2000hr
Warranty	5 Years



Structure Total 13.5mil

Protection PET 2.0mil

Gloss Coating 0.5 mil

TPU 6.0mil

Removable Adhesive 1.5mil

Matt Liner PET 3.5mil



**Triumph Blades
KNIVES & BLADES**



**Triumph Scraper
KNIVES & BLADES**



**Blade Aide
KNIVES & BLADES**



**1" Single Edge Razor Blades
KNIVES & BLADES**



**Olfa SS Snap Blades (50 Pack)
KNIVES & BLADES**



**Olfa 5 Blade Knife
KNIVES & BLADES**



**Olfa SS Silver Knife
KNIVES & BLADES**



**Bondo Card (Gold) 3M
HARD CARDS**



**Teflon Hard Card (Black)
HARD CARDS**



**Tool Apron (Basic)
SPECIALTY**



**Squeegee in Channel 6"
SQUEEGEES**



**Blue Max Blade (Straight Edge)
SQUEEGEES**



**Blue Max Blade (Cropped Edge)
SQUEEGEES**



Black Tube Squeegee 9\"/>



Squeegee in Channel 12\"/>



**Turbo Squeegee (Red)
SQUEEGEES**



**Turbo Squeegee (Yellow)
SQUEEGEES**



**Blue Max with Unger Handle
SQUEEGEES**



**Unger Pro Handle
SQUEEGEES**



**Slim Foot
SPECIALTY**



**Tool Apron (Ergo)
SPECIALTY**



**Wagner Heat Gun
SPECIALTY**



**Spraymaster 32oz
SPRAYERS**



**Sprayer Head (Blue)
SPRAYERS**



**Bottle for Sprayer
SPRAYERS**



**Quickfoot (Blue)
SPECIALTY**



**Lil' Foot (Black)
SPECIALTY**



**Quickfoot (Yellow)
SPECIALTY**

تقنية النانو سيراميك

system **X** CERAMIC PROTECTION

Harnessing Nanotech Surface Protection Technology

12

element119
Thomaston, CT 06787
844.ELEM119



element  119

System X Ceramic Coatings

Proprietary shatter proof ceramic technology for Auto, Aircraft and Marine.



ما الذي يجعل 119 element الخيار الأفضل ؟

تعد 119 element واحدة من كبريات الشركات الأمريكية والمزود الأشهر لكبريات المنشآت هناك و الأكثر طلباً تأسست عام ٢٠١٠ في ولاية كونيتيكت (Connecticut) شمال شرق أمريكا وتحديداً في مدينة فيرنون . (Vernon) حظيت منتجاتها بالإعجاب والثقة حتى أصبحت رائدة في دعم عملائها ليس في أمريكا وحسب بل وفي كافة أنحاء العالم بأفضل ماوصلت إليه صناعة منتجات النانو سيراميك - التقنية الأحدث في مجال حماية السيارات وكذلك الطائرات والناقلات البحرية وكافة وسائل المواصلات نفخر في 119 element بإمتلاكنا أفضل مصانع الإنتاج العملاقة في الولايات المتحدة ، تحت إشراف خبراء مهرة في إدارة مشاريع الأبحاث والتطوير ، مما يضمن لعملائنا الكرام الحصول على أفضل خدمات تقنية النانو سيراميك مدعومة بأحدث حلول الحماية وأكثرها تطوراً على مستوى العالم .





PRODUCT OVERVIEW



System X Diamond is a thin, flexible, permanent 9H ceramic coating with previously unachievable durability and hydrophobic properties.

Our top-of-the-line low maintenance self cleaning coating is slick to the touch and imparts a deep gloss to paintwork. Diamond's unparalleled paint protection against environmental factors will keep your car looking better then new as long as you own it.

SCS tested, Boeing approved. Diamond has a **LIFETIME WARRANTY** on new cars and up to 8 years on used when installed by an Accredited Installation Center and annual inspection requirements are met.

TECHNICAL DATA

EFFECTIVENESS	8+ years depending on environmental factors
PENCIL HARDNESS	9H
APPLICATION	By hand with sponge, coating block or cotton applicator
BOTTLE SIZE	65 mL
SHELF TIME	1 years from shipment date when unopened and stored dry at 18°C (64°F) to 23°C (73°F)
APPEARANCE	Clear / High Gloss
FILM THICKNESS	.8 - 1 µm
CHEM. RESISTANCE	Excellent
TEMP. RESISTANCE	> 760°C (1400°F)
SALT SPRAY	(ASTM B117) @ 35°C (95°F), 5% salt concentration, > 350 hrs to first signs of corrosion
ADHESION CROSS-CUT TAPE	(ASTM D3359) 5b (0%, none)
MANDREL BEND	(ASTM D522) 0% @ 180° rotation
IMPACT	(ASTM D2794) 80/80 in/lbs
COVERAGE	60 sqft / ounce (30 ml)
DRY TIME	20 minutes
CURE TIME	Initial cure in 4 hours, full cure in 3 days



PRODUCT OVERVIEW



System X Pro is a super slick super hydrophobic ceramic coating for automotive paint. Pro is a semi-permanent 9H self cleaning ceramic coating with high gloss.

Pro has passed rigorous Boeing approval testing and has been evaluated for hardness as well as alkali and salt resistance by SGS laboratory. This ensures Pro is 100% safe for your paint, adheres on a molecular level, and withstands tough environmental conditions.

Pro has a **SIX YEAR WARRANTY** on most cars when installed by an Accredited Installation Center and annual inspection requirements are met.

TECHNICAL DATA

EFFECTIVENESS	6+ years depending on environmental factors
PENCIL HARDNESS	9H (7H scratch hardness)
APPLICATION	By hand with sponge, coating block or cotton applicator
BOTTLE SIZE	65 mL
SHELF TIME	1 years from shipment date when unopened and stored dry at 18°C (64°F) to 23°C (73°F)
APPEARANCE	Clear / High Gloss
FILM THICKNESS	.75 - 1 µm
CHEM. RESISTANCE	Excellent
TEMP. RESISTANCE	> 760°C (1400°F)
SALT SPRAY	(ASTM B117) @ 35°C (95°F), 5% salt concentration, > 350 hrs to first signs of corrosion
ADHESION CROSS-CUT TAPE	(ASTM D3359) 5b (0%, none)
MANDREL BEND	(ASTM D522) 0% @ 180° rotation
IMPACT	(ASTM D2794) 80/80 in/lbs
COVERAGE	60 sqft / ounce (30 ml)
DRY TIME	20 minutes
CURE TIME	Initial cure in 4 hours, full cure in 3 days



PRODUCT OVERVIEW



System X Crystal Ceramic Coating is a professional grade coating that lasts for up to 3 years - that offers superior System X Crystal semi-permanent ceramic coating, provides 2-3 years of gloss and protection.

Crystal inter-locks part of its molecular structure with the surface molecules of your paintwork so you get a coating that will not be washed off like a wax or sealant. Crystal has passed rigorous Boeing approval testing which ensures 100% safety for paint.

Utilizing our proprietary ceramic technology Crystal is high performer against friction, heat, and solvents.

TECHNICAL DATA

EFFECTIVENESS	3 years depending on environmental factors
PENCIL HARDNESS	7H
APPLICATION	By hand with sponge, coating block or cotton applicator
BOTTLE SIZE	65 mL, 275ml
SHELF TIME	1 years from shipment date when unopened and stored dry at 18°C (64°F) to 23°C (73°F)
APPEARANCE	Clear / High Gloss
FILM THICKNESS	.5 - .75 µm
MANOREL BEND	(ASTM D5322) 0% @ 180° rotation
CHEM. RESISTANCE	Very Good
TEMP. RESISTANCE	>760°C (1400°F)
ADHESION CROSS-CUT TAPE	(ASTM D3359) 5b (0%, none)
COVERAGE	60 sqft / ounce (30 ml)
DRY TIME	20 minutes
CURE TIME	Initial cure in 4 hours, full cure in 3 days

PRODUCT OVERVIEW



System X Glass protects your windshields, windscreens, windows, mirrors, headlamps, and glass surfaces for a full 2 years!

This amazing coating protects from micro scratches while multiplying the surface's hydrophobic properties. System X Glass dramatically increases visibility in the rain and makes de-icing in the winter and cleaning insect matter in the summer a breeze.

System X Glass is truly a breakthrough in glass protection technology. System X Glass reduces glare and reduces stone chips with a single application.

EFFECTIVENESS

2 years depending on environmental factors

DURABILITY

Very Good

BURST PACK SIZE

60 mL

DRY TIME

20 minutes

APPEARANCE

Invisible

FINISH

Superhydrophobic

SHELF TIME

1-2 years from shipment date when unopened and stored dry at 38°C (104°F) to 23°C (73°F)





PRODUCT OVERVIEW

System X Renegade is our tried and true aircraft and marine coating, offering up to two years of protection in these harsh environments.

Renegade is unique in that it can be both hand applied or sprayed with a HVLP gun. When sprayed it instantly flashes eliminating the need to buff off, for huge time savings.

Renegade has passed strict Boeing approval testing and withstands temps over 1000 degrees. Stop spending time cleaning and correcting paint fouled around exhaust ports with our unique aircraft and marine coating.

TECHNICAL DATA

EFFECTIVENESS	1 year in most marine applications, up to 2 years in aerospace
PENCIL HARDNESS	9H
APPLICATION	By hand with sponge / coating block, or via HVLP touch up gun with 1mm tip
BOTTLE SIZE	275 mL, 4L
SHELF TIME	1 years from shipment date when unopened and stored dry at 18°C (64°F) to 23°C (73°F)
APPEARANCE	Clear / Candy Gloss
FILM THICKNESS	.75 - 1 µm
CHEM. RESISTANCE	Excellent
TEMP. RESISTANCE	> 760°C (1400°F)
SALT SPRAY	(ASTM B117) @ 35°C (95°F), 5% salt concentration, > 350 hrs to first signs of corrosion
ADHESION CROSS-CUT TAPE	(ASTM D3359) 5B (0%, none)
MANDREL BEND	(ASTM D532) 0% @ 180° rotation
IMPACT	(ASTM D2794) 80/80 in/lbs
COVERAGE	60 sqft / ounce (50 ml)
DRY TIME	20 minutes
CURE TIME	Initial cure in 4 hours, full cure in 3 days



PRODUCT OVERVIEW

The marine environment is unforgiving so we created System X Xtreme - our premiere spray-applied marine coating. The high corrosiveness of salt, UV rays, acids, alkalies, exhaust and algae/shell contaminants can cause structural and cosmetic damage that impair your craft's performance and ruin its appearance. Harnessing the most durable ceramic technology available, Xtreme is our best performer against friction, heat, and solvents. Able to withstand heat over 1000 degrees, Xtreme is highly mar resistant, and needs to be applied in a controlled environment with a 24-hour dry time.

The extreme gloss finish will not yellow, crack, peel or delaminate through years. Upon application you can have the utmost confidence that your vessels will be rendered virtually immune to the adverse weathering effects of both underwater and above-water environments, conditions, and elements. For the ultimate marine protection, look no further.

TECHNICAL DATA

EFFECTIVENESS	Up to 2 years in most marine applications
PENCIL HARDNESS	9H
APPLICATION	HVLP touch up gun with 0.8mm tip
BOTTLE SIZE	275 mL, 4L
SHELF TIME	1 years from shipment date when unopened and stored dry at 18°C (64°F) to 23°C (73°F)
APPEARANCE	Clear / HighGloss
FILM THICKNESS	.5 - .7 mil
CHEM. RESISTANCE	Outstanding
TEMP. RESISTANCE	> 538°C (1000°F)
SALT SPRAY	(ASTM B117) @ 35°C (95°F), 5% salt concentration, > 400 hrs to first signs of corrosion
ADHESION CROSS-CUT TAPE	(ASTM D3359) 5b (0%, none)
MANDREL BEND	(ASTM D522) 0% @ 180° rotation
IMPACT	(ASTM D2794) 90/80 in/lbs
COVERAGE	36 sq feet (3.34451 sq meters) per 100ml
DRY TIME	40 minutes
CURE TIME	Initial cure in 4 hours, full cure in 3 days

PRODUCT OVERVIEW

System X Interior protects all your interior surfaces, such as fabric seats, carpet, leather, and vinyl with a single professional coating. Spills and stains clean up easily and quickly. System X Interior is safe, easy to apply, has no odor, is water based, and dries quickly. Sprayed on by hand and air dried, it provides great protection for your interior without changing the color of your leather, fabrics, or carpet.

EFFECTIVENESS

2-5 years depending on environmental factors

APPLICATION

By hand sprayer with microfiber towel or sponge

BOTTLE SIZE

950 mL sprayer, 4 L, 20 L

SHELF TIME

1-2 years from shipment date when unopened and stored dry at 18°C (64°F) to 23°C (73°F)

APPEARANCE

Clear

FINISH

Invisible

CHEM. RESISTANCE

Good

CURE TIME

24 hours

COVERAGE

40 mL - 80 mL per sq meter, depending on material - 200 mL per car

DRY TIME

30 minutes





LIFETIME COATING FOR PAINT



7 YEAR COATING FOR PAINT



2-3 YEAR COATING FOR PAINT



2 YEAR GLASS COATING



AIRCRAFT COATING



MARINE COATING

APPLICATIONS



AUTO



AIRCRAFT



MARINE



MOTORHOME



TRUCK



COMMERCIAL FLEET



SOLAR PANELS



MANUFACTURING COATINGS



CUSTOM FORMULATIONS



Exclusive Agent in Saudi Arabia Protection Ways Trading Company
Riadh - Olaya - Imam Saud Road Cross Olaya St., Opp. Marina Mall,
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الوكيل الحصري في المملكة العربية السعودية شركة طرق الحماية للتجارة
الرياض - تقاطع الامام سعود مع العليا العام مقابل مارينا مول مجمع الحياة
ص.ب ٥٠٥٤٠ الرياض ١١٥٣٣ - ت : ٢٠٠٦٢٢٠ / ٠١١ - فاكس : ٢٠٠٦٢٠٢ / ٠١١
فرع المنطقة الوسطى : ٠٥٦١٥١٢٢٥٣ - فرع المنطقة الشرقية : ٠٥٣٠٠٣٩٨٢٥
فرع المنطقة الغربية : ٠٥٦١٥١٩٥٥٤

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