



SynDeck™

A full line of ultra lightweight underlayments
and systems to meet the toughest
performance standards.

The SynDeck™ line of marine products:

- US Coast Guard, ABS, IMO and submarine certified
- Ultra lightweight products
- Wheelmark accredited



Tough Application Requirements Demand Proven Products

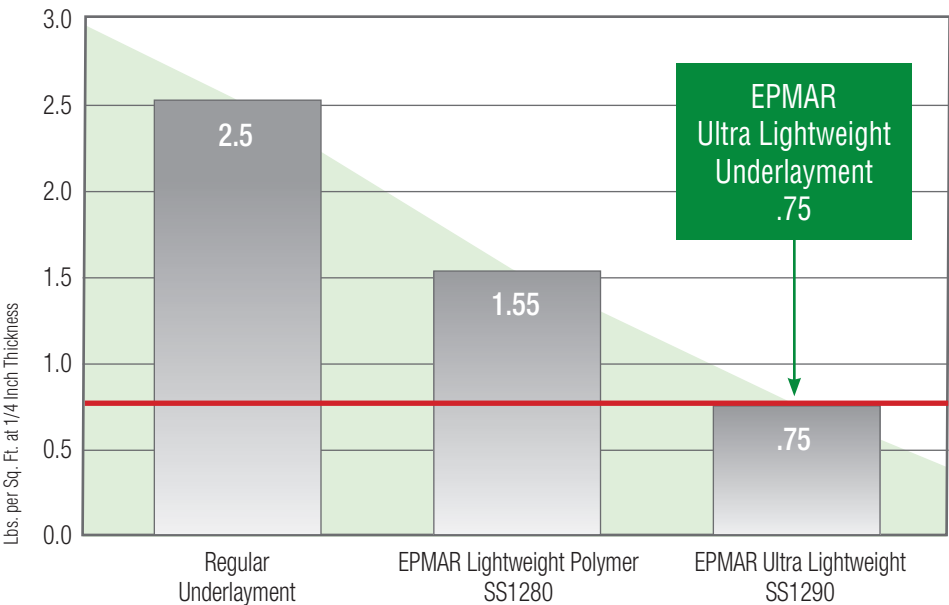
SynDeck™ is a complete line of deck underlay-ment products and systems utilized in the construc-tion, overhaul and repair of decking and other surfaces in the marine environment. Products are certified for US Navy use, including ultra lightweight underlayments that meet Navy military specifica-tions for weight and performance. High quality epoxy color and clear topcoats are utilized to provide a decorative, scratch-resistant, long lasting deck and surface covering. Products are US Coast Guard (USCG) approved with Wheelmark accreditation.

Proven Performance for Every Marine Application

SynDeck™ products can be utilized in a wide range of marine applications including, military vessels, cruise ships, commercial yachts, pleasure yachts, ferries and workboats—some have been applied for more than 15 years in the marine environment. They have lowered maintenance and repair costs and have proven to be durable against corrosion and wear—even under extreme conditions.

Products are designed to meet the needs of specific surface materials, applications and performance requirements. For example, a lightweight, waterproof and flexible underlayment is available for areas that experience high

EPMAR Underlayments Take the Weight Out.



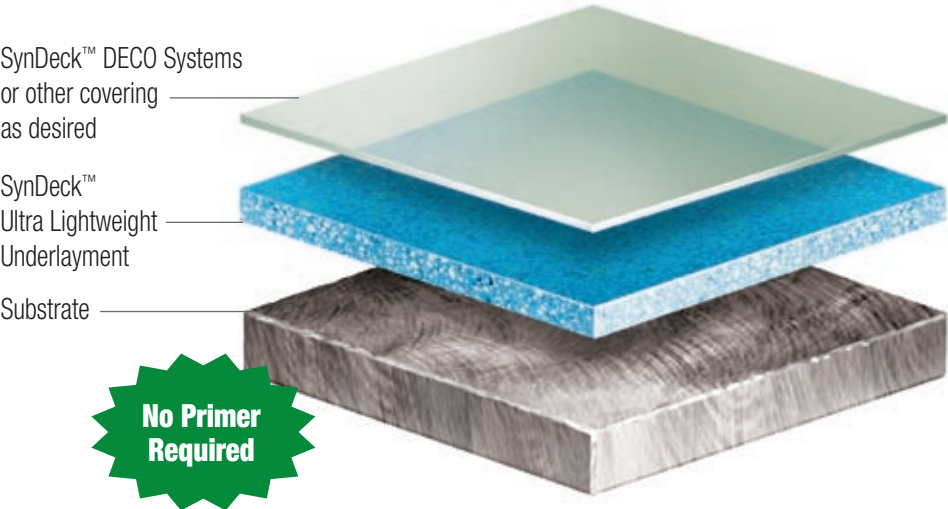
continuous abrasion such as showers, heads, mess areas, berthing spaces and galleys that need extra protection. Waterproofing, chemical resistance, adhesion to different materials, application in cold temperatures—whatever the requirement, we have a product that meets your needs. Review the product sheets to find a solution for your specific application or discuss your needs with your customer service representative.

When Weight Matters as Much as Performance

The ship building/repair industry is highly focused on the efficiencies that come from ultra lightweight materials. The SynDeck™ Ultra Lightweight Underlayment system gives you the highest performance with the lightest possible weight. It meets the Navy's criteria for all underlayment to weigh less than 1lb. per square foot at ¼ inch installed.

SynDeck™ Ultra Lightweight Underlayment provides excellent corrosion resistance—MilSpec 3135 without a primer coat. It levels out irregularities, grades and contours, is non-porous and completely waterproof. Let us show you how to take the weight out without losing performance. The cost-of-use savings (based on material plus maintenance costs) can be significant. It is USCG approved with Wheelmark accreditation.

EPMAR SynDeck™ Systems



EPMAR: A Leader in Protective Coatings Technology

EPMAR Corporation is a wholly owned subsidiary of Quaker Chemical Corporation, a \$460 million global company. For over 25 years, we have been developing, manufacturing, and marketing low and zero VOC coatings and adhesives. These custom-formulated products, derived from water borne systems, epoxies, polyurethanes, polyureas and reactive stains, continue to bring value to our customers in the following markets: aerospace, bathware, environmental, electronics, marine, concrete and construction industries. EPMAR is committed to creating technically advantaged products that are also environmentally friendly.

EPMAR Corporation has been serving industries in the marine environment for more than 15 years, including the manufacturing and repairing of military, commercial and pleasure vessels. In 1989, our regular underlayment and waterborne membrane were approved for use by the US Navy. Since then, our primary deck covering and underlayments have been specified as the standard



for many military vessels. Our well-experienced R&D staff continues to develop new products and solutions to meet the specialty needs of industries working in the different marine environments.

Quaker Chemical Corporation is a leading global provider of process chemicals, chemical specialties, services, and technical expertise to a wide range

of industries—including steel, automotive, mining, aerospace, tube and pipe, coatings, and construction materials. Our products, technical solutions, and chemical management services enhance our customers' processes, improve their product quality, and lower their costs. Quaker's headquarters are located near Philadelphia, in Conshohocken, Pennsylvania.

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The SynDeck™ Line of Products

DECO SYSTEMS

	Key Benefits	Description	Application
Ultra Lightweight DECO System SS1290 <div>WEIGHT: < 1 lb.</div> <div>CERTIFICATION(S): MilSpec 24613</div>	<ul style="list-style-type: none"> • Excellent for surfaces requiring abrasion resistance, resilience, waterproofing, and chemical resistance • Eliminates the need for an additional water barrier • Offers zero VOC 	<ul style="list-style-type: none"> • A 100% solids, two component, decorative, waterproofing coating • A three step system: <ul style="list-style-type: none"> - SS1290 is applied to fair and level decks - SS5000 is applied, which gives the user a choice of color and the option of flakes (glass beads may be utilized if a non-slip surface is desired) - Topcoat of SS5000 	<ul style="list-style-type: none"> • For metal decks in marine environments and other surfaces. For yachts/super yachts, pleasure crafts • Decks and other surfaces where irregularities, grades and contours need to be corrected
Lightweight Polymer DECO System SS1280 <div>CERTIFICATION(S): MilSpec 24613</div>	<ul style="list-style-type: none"> • Excellent for surfaces requiring abrasion resistance, resilience, waterproofing, and chemical resistance • Eliminates the need for an additional water barrier • Offers zero VOC 	<ul style="list-style-type: none"> • A 100% solids, two component, decorative, waterproofing coating • A three step system: <ul style="list-style-type: none"> - SS1280 is applied to fair and level decks - SS5000 is applied, which gives the user a choice of color and the option of flakes (glass beads may be utilized if a non-slip surface is desired) - Topcoat of SS5000 	<ul style="list-style-type: none"> • For metal decks in marine environments and other surfaces. For aluminum-hulled ships that need flexibility—yachts/super yachts, pleasure crafts • Decks and other surfaces where irregularities, grades and contours need to be corrected



The SynDeck™ Line of Products

UNDERLAYMENTS

	Key Benefits	Description	Application
Ultra Lightweight Underlayment SS1290 WEIGHT: .75 lb/sq. ft. @ ¼ in. CERTIFICATION(S): MilSpec 3135 & 24613, Submarine Certified, USCG, ABS, IMO, Wheelmark accredited	<ul style="list-style-type: none"> • Excellent adhesion • Exhibits little or no porosity • Waterproof—excellent for wet or damp spaces • Designed to be less than 1 lb./sq. ft. at ¼ inch installed. • Offers zero VOC • Passed the corrosion-resistance requirements of MilSpec 3135 without primer coating • Nonporous • Requires no primer 	<ul style="list-style-type: none"> • A three component, aggregate filled, 100% solids, amine-cured epoxy flooring product • Can be applied as an ultra lightweight underlayment for all other approved deck systems • Applied over approved prime coats and without primer over properly prepared surfaces • A three step process: - Prep, bond, trowel 	<ul style="list-style-type: none"> • For prepared or prime coated steel decks and other surfaces where irregularities, grades and contours need to be corrected • Ideal for areas subject to continuous abrasion—showers, heads, mess areas, berthing spaces, galleys and passageways
Lightweight Polymer Underlayment SS1280 WEIGHT: 1.55 lbs/sq.ft. @ ¼ in. CERTIFICATION(S): MilSpec 3135 & 24613, Submarine Certified	<ul style="list-style-type: none"> • Excellent for surfaces requiring abrasion resistance, resilience, waterproofing, and chemical resistance • Flexible • Eliminates the need for an additional water barrier; does not require a bond coat or waterproof membrane • Offers zero VOC • One step process • Requires no primer • Available in a ¼ gallon patch kit 	<ul style="list-style-type: none"> • A lightweight, 100% solids, two component waterproofing polymer underlayment • A one step process that does not require a bond coat or waterproof membrane; a troweled mixture 	<ul style="list-style-type: none"> • For metal decks and other surfaces in marine environments • For aluminum hulled ships that need flexibility—yachts/super yachts, pleasure crafts • Decks and other surfaces where irregularities, grades and contours need to be corrected • Wet spaces or where other contaminants may be evident and surfaces requiring abrasion resistance
Ultra Lightweight Terrazzo Underlayment SS1290 FC(xx) WEIGHT: .79 lbs/sq.ft. @ ¼ in. TESTED TO CERTIFICATION(S): MilSpec 3135 & 24613, USCG, ABS, IMO, Wheelmark accreditation	<ul style="list-style-type: none"> • Resembles a unique marble/granite finish which fares and levels decking in just 2 steps • Same easy application and value added qualities of SS1290 • Available in a variety of colors and accents 	<ul style="list-style-type: none"> • A three component, aggregate filled, 100% solids, amine-cured epoxy flooring product • Can be applied as an ultra lightweight underlayment for all other approved deck systems • Applied over approved prime coats and without primer over properly prepared surfaces • A three part process: - Prep, bond, trowel 	<ul style="list-style-type: none"> • For prepared or prime coated steel decks and other surfaces where irregularities, grades and contours need to be corrected • Ideal for areas subject to continuous abrasion—showers, heads, mess areas, berthing spaces, galleys and passageways

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COATINGS

	Key Benefits	Description	Application
Bond Coat SS1222 <hr/> SS1222 Resin SS1222 Hardener	<ul style="list-style-type: none"> • Offers zero VOC • No odor 	<ul style="list-style-type: none"> • Low viscosity • Water-clear appearance • 100% solids epoxy • Specifically designed as a primer/coating material 	<ul style="list-style-type: none"> • Used in conjunction with the installation of underlayment material
Clear and Color Coat SS5000 and SS50XX <hr/> CERTIFICATION(S): MilSpec 24613, Submarine Certified	<ul style="list-style-type: none"> • Excellent adhesion • Offers zero VOC • Cures overnight • No blushing • Easy aggregate filling for slurry applications or broadcast systems • Can be applied at low temperatures and high build • Excellent "hide" quality in colors 	<ul style="list-style-type: none"> • A top quality, abrasion-resistant amine epoxy coating that cures to a resilient high gloss film • Top coat sealer where clear, bright, blemish-free surface is desired 	<ul style="list-style-type: none"> • For marine decking • Excellent results when applied in low temperature, high humidity, with fast dry and cure times with high build; no blushing • Available in clear and variety of colors and decorative results
Clear and Color Coat SS5100 and SS51XX <hr/> CERTIFICATION(S): USCG, ABS, IMO, Wheelmark accredited	<ul style="list-style-type: none"> • Excellent adhesion • Offers zero VOC • Cures overnight • No blushing • Easy aggregate filling for slurry applications or broadcast systems • Can be applied at low temperatures and high build • Excellent "hide" quality in colors 	<ul style="list-style-type: none"> • An abrasion resistant epoxy coating that cures to a resilient high gloss film • Easy application 	<ul style="list-style-type: none"> • Formulated for marine applications • Available in clear and colors



The SynDeck™ Line of Products

MEMBRANE/ADHESIVES			
	Key Benefits	Description	Application
Waterproof Membrane SS2102	<ul style="list-style-type: none"> • Good leveling properties • Excellent resilience, chemical and moisture resistance • Waterproof • Offers zero VOC • User friendly product 	<ul style="list-style-type: none"> • A 100% solids, two component waterproofing product 	<ul style="list-style-type: none"> • Waterproofing product for use over underlayments prior to final deck covering
Epoxy Adhesive SS5501	<ul style="list-style-type: none"> • Excellent bond strength with: <ul style="list-style-type: none"> - Stratica tile - Steel (primed) - Aluminum (primed) - Concrete - Membrane (SS2102) • No odor 	<ul style="list-style-type: none"> • A two component, amine-cured epoxy flooring product; a troweled mixture 	<ul style="list-style-type: none"> • For prepared or prime-coated steel decks and other surfaces • For areas such as service showers, heads, mess areas, berthing spaces, galleys and passageways

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GROUTS/SEALER			
	Key Benefits	Description	Application
Combination Grout SS1241	<ul style="list-style-type: none"> • Excellent chemical resistance • Meets ANSI spec A 118.3-1985 • Easy application • Easy “water” clean up • No unpleasant odors when components mixed • Various colors 	<ul style="list-style-type: none"> • A two component epoxy combined with carefully selected sand to produce a quality tile grouting material 	<ul style="list-style-type: none"> • Easy application for use as both a tile setting and a color grout for ceramic, porcelain, marble, granite, etc.
Grout Sealer SS1255	<ul style="list-style-type: none"> • Moisture insensitive • Flexibility relieves shock and stress • Outstanding chemical and abrasion resistance • Excellent adhesion • Convenient mix ratio • Fast set up • Clear color 	<ul style="list-style-type: none"> • A two component, high-thixotropic-index epoxy 	<ul style="list-style-type: none"> • Specifically designed to seal decks, floors and other surfaces where higher porosities may be of concern prior to final deck coating or covering