

Marine

Product reference guide
USA and Canada





Protecting your investments

This overview presents paints designated for anticorrosion protection, produced at our state of the art manufacturing sites, these products are widely available. To obtain detailed information, specifications and pricing for your project, please contact your local sales representative or local Hempel office.

Hempel was founded in Denmark in 1915 by J. C. Hempel, who introduced the concept of ready-made marine paints. Over the years we have expanded our original product portfolio and services into many other coatings and markets. The company has grown to become the largest independent supplier of coatings for the protective, marine, container, yacht and decorative market segments.

We offer a full range of proven coatings and technical service, helping our customers to reduce fuel bills, extend maintenance cycles and cut drydock expenses.

As a global supplier of marine, protective and decorative coatings we offer both high quality products and trusted technical and application advice. Whether you need coatings for newbuilding, maintenance or sea stock, our products will keep your vessel in prime condition for longer, from the underwater hull to the cargo tanks and ballast tanks.

Our protective coatings are approved by numerous testing and research institutions and are certified for various operating conditions and meet today's regulatory requirements.

Hempel's Multi-tint® system

Our Multi-tint system is a volumetric tinting system developed by Hempel in 1993 as a tool for meeting our customers' demands for special colors from international color standards, such as RAL, British Standard 381C and BS-4800, NCS, Munsell plus other international and customer colors.

For further information please contact your local Hempel office.

Key

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| Roller | Brush | Airless spray | Conventional spray | Micaceous iron oxide | Multi-tint |

Fouling defense and fouling release with tiecoats

| Product | Description | VS% | VOC | Rec DFT | | Theoretical spreading rate | Components | Mixing ratio | Shelf life | Pot life @ 20°C/68°F | Dry-to-touch @20°C/68°F | Application method |
|---|---|-----|-------------------------|------------------|--|--|------------|--------------|---|----------------------|-------------------------|--------------------|
| Fouling defense available for application outside of US and Canada | | | | | | | | | | | | |
| Hempaguard X8 | Part of the Hempaguard MaX System uses Actiguard® technology. Underwater hull coating that combines hydrogel silicone and biocide to protect against biofouling in any trading patterns. Service intervals up to 90 months / idle up to 120 days. Best-in-class fuel savings. | 80% | 167 g/L; 1.4 lbs/gal | 200 µm 8 mils | | 4.0 m ² /L - 200 µm; 160.4 sqft/gal - 8 mils | 2 | 18.2:1.8 | 2 yrs base; 1 yr crosslinker | 1hr | 3hrs | |
| Hempaguard X5 | Actiguard technology. Underwater hull coating that combines hydrogel silicone and biocide to protect against biofouling in any trading patterns. For 60 months dry dock interval and up to 36 idle days. | 68% | 276 g/L; 2.3 lbs/gal | 150 µm 6 mils | | 4.5 m ² /L - 150 µm; 180.5 sqft/gal - 6 mils | 2 | 17.8:2.2 | 1.5 yrs base; 1 yr crosslinker | 1hr | 3hrs | |
| Tiecoats for fouling control product application outside of US and Canada | | | | | | | | | | | | |
| Hempasil Nexus II 27400 | Silicone based sealer / tiecoat. For use with Hempasil / Hempaguard systems. A bridging tiecoat and also sealer over old antifouling. Cures down to 0°C or 32°F. | 56% | 388 g/L; 3.2 lb/gal | 100 µm 4 mils | | 5.6 m ² /L - 100 µm; 224.6 sqft/gal - 4 mils | 3 | 13.9:3.6:2.5 | 1.5 yrs base, 1 yr cure, 1 yr additive | 1hr | 1hr | |
| Hempasil Nexus X-seal 27600 | Silicone based tiecoat. For use as a sealer to establish a bridge between the aged antifouling and Hempaguard or Hempasil. Application temperature > 10°C or 50°F. | 54% | 405 g/L; 3.4 lbs/gal | 120 µm 5 mils | | 4.5 m ² /L - 120 µm; 180.5 sqft/gal - 4.8 mils | 3 | 16.8:2.3:0.9 | 1.5 yrs base; 1 yr cure; 1.5 yrs additive | 1hr | 1-2hrs | |

Fouling defense and fouling release with tiecoats

| Product | Description | VS% | VOC | Rec DFT | | Theoretical spreading rate | Components | Mixing ratio | Shelf life | Pot life @ 20°C/68°F | Dry-to-touch @20°C/68°F | Application method |
|---|--|-----|-------------------------|--------------------|--|--|------------|--------------|--|----------------------|-------------------------|--------------------|
| Fouling release for applications in the US and Canada | | | | | | | | | | | | |
| Hempaguard X7 | Actiguard technology. Underwater hull coating that combines hydrogel silicone and biocide to protect against biofouling in any trading patterns. For 90 month dry dock interval and up to 120 idle days. | 70% | 262 g/L; 2.2 lbs/gal | 150 µm 6 mils | | 4.7 m ² /L - 150 µm; 188.5 sqft/gal - 6 mils | 2 | 17.8:2.2 | 1.5 yr base; 1 yr crosslinker | 1hr | 3hrs | |
| Hempasil X3+ | Silicone hydrogel. Underwater hull biocide free fouling release product for based on hydrogel technology. | 71% | 260 g/L; 2.2 lbs/gal | 150 µm 6 mils | | 4.7 m ² /L - 150 µm; 188.5 sqft/gal - 6 mils | 2 | 17.8:2.2 | 2 yrs base; 1 yr crosslinker | 2hrs | 3hrs | |
| Hempasil Helix 77000 | Silicone. Biocide free high solids coating for propellers and rudders. | 67% | 284 g/L; 2.4 lbs/gal | 150 µm 6 mils | | 4.5 m ² /L - 150 µm; 180.5 sqft. - 6 mils | 2 | 7:1 | 1.5 yr base; 1 yr crosslinker | 2hrs | 3hrs | |
| Hempasil 77300 | Silicone. Biocide free high solids coating for static structures and contrast markings (i.e. draft marks on Hempasil). | 68% | 283 g/L; 2.3 lbs/gal | 150 µm 6 mils | | 4.5 m ² /L - 150 µm; 180.5 sqft. - 6 mils | 2 | 7:1 | 1.5 yr base; 1 yr crosslinker | 2hrs | 3hrs | |
| Tiecoats for fouling control product applications in the US and Canada | | | | | | | | | | | | |
| Hempasil Nexus 27302 | Silicone based tiecoat. For use between anticorrosion primer and Hempaguard or Hempasil. Application temperature > 10°C or 50°F. | 70% | 279 g/L; 2.3 lbs/gal | 120 µm 5 mils | | 5.8 m ² /L - 120 µm; 232.6 sqft/gal - 4.8 mils | 3 | 14.8:4.2:1 | 1.5 yrs base; 1 yr cure; 1.5 yr additive | 1hr | 2hrs | |
| Hempasil Nexus X-Tend 27500 | Silicone based humidity curing tiecoat. Used for touch-up and repair of Hempasil at minimum curing temperature: 5°C or 41°F. | 65% | 252 g/L; 2.1 lbs/gal | 120 µm 4.8 mils | | 5.4 m ² /L - 120 µm; 216.5 sqft/gal - 4.8 mils | 1 | N/A | 18 months | 1hr | 3hrs | |

Antifoulings with tiecoats

| Product | Description | VS% | VOC | | Rec DFT | Theoretical spreading rate | Components | Mixing ratio | Pot life @ 20°C/68°F | Dry-to-touch @20°C/68°F | Application method |
|---|--|-----|----------------------|--|------------------|--|------------|--------------|----------------------|-------------------------|---|
| Antifoulings available for application outside of US and Canada | | | | | | | | | | | |
| Globic 9500 M 78954 | A premium high solids chemically hydrolysing SPC antifouling based on Nano acrylate technology. Self-smoothening and fine polishing control. Patented microfibers means best-in-class mechanical strength. Performs in different trading patterns. | 58% | 328 g/L; 2.7 lbs/gal | | 100 µm 4 mils | 5.8 m ² /L - 100 µm; 232.6 sqft/gal - 4 mils | 1 | N/A | N/A | 2.5hrs |  |
| Globic 9500 S 7895S | A premium high solids chemically hydrolysing SPC antifouling based on Nano acrylate technology. Self-smoothening and fine polishing control. Patented microfibers means best-in-class mechanical strength. Performs exceptionally well in slow steaming coastal areas. | 58% | 348 g/L; 2.9 lbs/gal | | 100 µm 4 mils | 5.8 m ² /L - 100 µm; 232.6 sqft/gal - 4 mils | 1 | N/A | N/A | 2.5hrs |  |
| Globic 9000 78900 | Nano acrylate technology based high solids antifouling with patented microfiber reinforcement. NAT provides low friction and self-smoothening for deepsea, low-med speed and 90 month dry docking interval. | 58% | 380 g/L; 3.2 lbs/gal | | 100 µm 4 mils | 5.8 m ² /L - 100 µm; 232.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs |  |
| Globic 9000 78950 | Nano acrylate technology based high solids antifouling with patented microfiber reinforcement. NAT provides low friction, self-smoothening for deep-sea, low-high speed, 90 month dry docking interval. | 58% | 367 g/L; 3 lbs/gal | | 100 µm 4 mils | 5.8 m ² /L - 100 µm; 232.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs |  |
| Dynamic 9000 79900 | Nano acrylate technology based high solids antifouling with patented microfiber reinforcement. NAT provides low friction and predictable polishing. Ideal for aggressive trading conditions and long DD intervals. | 58% | 359 g/L; 3 lbs/gal | | 100 µm 4 mils | 5.8 m ² /L - 100 µm; 232.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs |    |
| Globic 8000 78550 | Nano acrylate technology based high solids antifouling with patented microfiber reinforcement. NAT provides low friction and self-smoothening with instant activation of polishing. Ideal for slow steaming and frequent idle day with up to 90 days dry docking interval. | 58% | 383 g/L; 3.2 lbs/gal | | 100 µm 4 mils | 5.8 m ² /L - 100 µm; 232.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs |  |
| Dynamic 8000 79450 | Hydrolysing silyl acrylate technology antifouling with patented microfiber reinforcement. A selfpolishing, self-smoothening antifouling for vessels operating at faster speeds with up to 90 month docking intervals. | 58% | 345 g/L; 2.9 lbs/gal | | 100 µm 4 mils | 5.8 m ² /L - 100 µm; 232.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs |    |
| Globic 7000 78350 | Nano acrylate technology based high solids antifouling with patented microfiber reinforcement. NAT provides low friction and self-smoothening for slower steaming and frequent idle days. Up to 60 month DD interval. | 58% | 381 g/L; 3.2 lbs/gal | | 100 µm 4 mils | 5.8 m ² /L - 100 µm; 232.6 sqft/gal - 4 mils | 1 | N/A | N/A | 3hrs |  |
| Oceanic+ 73900 | Controlled self-polishing high solid antifouling with patented microfiber reinforcement. Use for coastal trade, low-med speeds, low-med activity, short-med idle periods and 60 month dry dock interval. | 64% | 347 g/L; 2.9 lbs/gal | | 100 µm 4 mils | 6.4 m ² /L - 100 µm; 256.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs |  |
| Oceanic+ 73950 | Controlled self-polishing high solid antifouling with patented microfiber reinforcement. Use for deepsea, med-high speeds, high activity, short idle periods and 60 month dry docking interval. | 64% | 349 g/L; 2.9 lbs/gal | | 100 µm 4 mils | 6.4 m ² /L - 100 µm; 256.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs |  |






Antifoulings with tiecoats

| Product | Description | VS% | VOC | | Rec DFT | Theoretical spreading rate | Components | Mixing ratio | Pot life @ 20°C/68°F | Dry-to-touch @20°C/68°F | Application method |
|--|---|-----|-------------------------|--|------------------|--|------------|--------------|----------------------|-------------------------|--------------------|
| Antifoulings available for application outside of US and Canada continued | | | | | | | | | | | |
| Atlantic+ 73850 | Self-polishing high solids antifouling with patented microfibr reinforcement. Robust rosin technology with a good biocide package ensure predictable antifouling protection. | 64% | 364 g/L; 3 lbs/gal | | 100 µm 4 mils | 6.3 m ² /L - 100 µm; 252.6 sqft/gal - 4 mils | 1 | N/A | N/A | 2hrs | |
| Olympic+ 72900 | Controlled self-polishing high solid antifouling with patented microfibr reinforcement. Use for deepsea low-med speeds, low-med activity, short idle and 36 month dry docking interval. | 64% | 364 g/L; 3 lbs/gal | | 100 µm 4 mils | 6.3 m ² /L - 100 µm; 252.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs | |
| Olympic+ 72950 | Controlled self-polishing high solid antifouling with patented microfibr reinforcement. Use for deepsea med-high speeds, high activity, short idle and 36 month dry docking interval. | 63% | 367 g/L; 3 lbs/gal | | 100 µm 4 mils | 6.3 m ² /L - 100 µm; 252.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs | |
| Olympic FB 7295B | Controlled self-polishing high solid antifouling with patented microfibr reinforcement. For deepsea flat bottom vessels with high activity, short idle and 36 month dry docking interval. | 58% | 384 g/L; 3.2 lbs/gal | | 100 µm 4 mils | 5.8 m ² /L - 100 µm; 232.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs | |
| Antifouling tiecoat for application outside the US and Canada | | | | | | | | | | | |
| Hempadur 47182 | Modified polyamide adduct cured epoxy anticorrosive tiecoat. Can replace one coat of AC for immersion service and act as tiecoat with AF. Application temperature > -5°C or 23°F. | 62% | 364 g/L; 3 lb/gal | | 125 µm 5 mils | 5 m ² /L - 125 µm; 200.5 sqft/gal - 5 mils | 2 | 7:1 | 2 hrs | 6hrs | |
| Antifoulings available in the US and Canada | | | | | | | | | | | |
| Olympic HI 76600 | A tin free ablative antifouling. Uses cuprous oxide to control biofouling. Use for bottom in global trade with short idle periods. | 65% | 368 g/L; 3.1 lbs/gal | | 100 µm 4 mils | 6.5 m ² /L - 100 µm; 260.7 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs | |
| Antifoulings available in the US only | | | | | | | | | | | |
| Hempel's Antifouling Globic 81950 | Tin free self-smoothing and self polishing antifouling. Use for deepsea trade at med-high speed, high activity, and short idle periods. | 60% | 360 g/L; 3 lbs/gal | | 100 µm 4 mils | 6 m ² /L - 100 µm; 240.6 sqft/gal - 4 mils | 1 | N/A | N/A | 4-5hrs | |
| Antifouling tiecoats for US and Canada | | | | | | | | | | | |
| Hempadur 47183 | Modified polyamide adduct cured epoxy anticorrosive tiecoat. Replaces one coat of AC for immersion service and acts as tiecoat with antifouling. Application temperature > -5°C or 23°F. VOC compliant. | 62% | 334 g/L; 2.8 lb/gal | | 125 µm 5 mils | 5 m ² /L - 125 µm; 200.5 sqft/gal - 5 mils | 2 | 7:1 | 2 hrs | 6hrs | |

Anti corrosive coatings

| Product | Description | VS% | VOC | | Rec DFT | Theoretical spreading rate | Components | Mixing ratio | Pot life @ 20°C/68°F | Dry-to-touch @20°C/68°F | Application method |
|---|---|-----|-------------------------|--|-------------------|--|------------|--------------|----------------------|--------------------------|--------------------|
| Anti corrosive epoxies and primers | | | | | | | | | | | |
| Hempadur Quattro XO 17820 | Universal pure epoxy. A hard tough coating with excellent resistance to abrasion and seawater. The product is available with different levels of aluminium and fiber pigmentation to deliver tailor made optimised properties for a different harsh service conditions. | 80% | 190 g/L; 1.6 lbs/gal | | 125 µm 5 mils | 6.4 m ² /L - 125 µm; 256.6 sqft/gal - 5 mils | 2 | 4:1 | 1.5hrs | 2hrs | |
| Hempadur Quattro 17634 | Universal epoxy. A self-primed high performance coating system for atmospheric or in-water service, including water ballast tanks and cargo oil tanks. Excellent anticorrosive with very good mechanical properties. Complies with section 175.300 of the Code of Federal Regulations title 21 – dry foodstuff. | 72% | 277 g/L; 2.3 lbs/gal | | 125 µm 5 mils | 5.8 m ² /L - 125 µm; 232.6 sqft/gal - 5 mils | 2 | 4:1 | 2hrs | 4hrs | |
| Hempadur EM 35740 | A two-component, ultra high solids and very low VOC epoxy coating. Good self priming properties and is suited for application even under humid conditions and on marginally prepared surfaces. | 97% | 52 g/L; 0.4 lbs/gal | | 150 µm 6 mils | 6.5 m ² /L - 150 µm; 260.6 sqft/gal - 6 mils | 2 | 2:1 | 1hr | 8hrs | |
| Hempadur Mastic 45880 | Polyamide adduct cured epoxy. Self-primed high solids, high build coating which forms a hard and tough surface and has good wetting properties and low temperature curing. Can be used for maintenance and minor repairs in immersed areas including ballast tanks and underwater hull. Surface tolerant. | 80% | 216 g/L; 1.8 lbs/gal | | 125 µm 5 mils | 6.4 m ² /L - 125 µm; 256.6 sqft/gal - 5 mils | 2 | 3:1 | 1hr | 4hrs | MIO MTT |
| Hempadur Mastic 45881 | Polyamide adduct cured epoxy. Self-primed high solids, high build coating which forms a hard and tough surface and has good wetting properties. Can be used for maintenance and minor repairs in immersed areas including ballast tanks and underwater hull. Surface tolerant. | 80% | 218 g/L; 1.8 lbs/gal | | 125 µm 5 mils | 6.4 m ² /L - 125 µm; 256.6 sqft/gal - 5 mils | 2 | 3:1 | 1hr | 3hrs | MIO MTT |
| Hempadur multi-strength GF Epoxy 3587A | High build glass flake epoxy. Impact and abrasion resistant. Good resistance to seawater, mineral oil, aliphatic hydrocarbons and splashes from petrol and related products. Will continue to cure underwater. | 87% | 179 g/L; 1.5 lbs/gal | | 350 µm 14 mils | 2.5 m ² /L - 350 µm; 100.2 sqft/gal - 14 mils | 2 | 4:1 | 1hr | 6hrs | |
| Hempadur 47183 | Modified polyamide adduct cured epoxy. Anticorrosive tiecoat which may be used with polyurethane, epoxy and acrylics. | 62% | 334 g/L; 2.8 lbs/gal | | 125 µm 5 mils | 5 m ² /L - 125 µm; 200.5 sqft/gal - 5 mils | 2 | 7:1 | 2hrs | 6hrs | (touch-up) |
| Shop primers | | | | | | | | | | | |
| Hempel's Shopprimer ZS 15890 | Solvent-borne zinc ethyl silicate shopprimer. Designed for automatic spray application. Especially suited, where welding (MIG/MAG) and gas-cutting properties are of importance. For short to medium-term protection of abrasive blast cleaned steel plates and other structural steel during the storage, fabrication, and construction periods. | 28% | 620 g/L; 5.2 lbs/gal | | 15 µm 0.6 mils | 18.7 m ² /L - 15 µm; 749.9 sqft/gal - 0.6 mils | 2 | 2:3 | 24hrs | Dry-to-handle 4-5mins | (touch-up) |

Finishing coats

| Product | Description | VS% | VOC | Rec DFT | | Gloss | Theoretical spreading rate | Components | Mixing ratio | Pot life @ 20°C/68°F | Dry-to-touch @20°C/68°F | Application method |
|-------------------------|---|-----|-------------------------|-------------------|--|------------|--|------------|--------------|----------------------|-------------------------|---|
| Finishing coats | | | | | | | | | | | | |
| Hempatex Hi-build 46410 | Acrylic resin and non-chlorinated plasticizer. High build flat finish primer, intermediate or finishing coat. Resistant to saltwater, aliphatic hydrocarbons and vegetable oils. | 42% | 509 g/L; 4.2 lbs/gal | 100 µm 4 mils | | Flat | 4.2 m ² /L - 100 µm; 168.4 sqft/gal - 4 mils | 1 | N/A | N/A | 4hrs |  |
| Hempel's Silvium 51570 | Oleoresinous general purpose aluminum paint. A finishing coat on steel or woodwork where good light reflection is needed and/or for a moderately hot surface. | 38% | 506 g/L; 4.2 lbs/gal | 35 µm 1 mil | | Glossy | 15.2 m ² /L - 25 µm; 609.5 sqft/gal - 1 mil | 1 | N/A | N/A | 5hrs |  |
| Hempalin Enamel 52140 | Alkyd enamel. Glossy general purpose finishing coat on interior and exterior steel, woodwork and engine rooms. Weather resistant. Resistant to salt water, spillage of mineral oil and other aliphatic hydrocarbons. A low flame spread material. | 46% | 425 g/L; 3.5 lbs/gal | 30 µm 1.2 mils | | Glossy | 15.3 m ² /L - 30 µm; 613.5 sqft/gal - 1.2 mils | 1 | N/A | N/A | 6-8hrs |  |
| Hempaxane Light 55030 | Polysiloxane enamel. High gloss finishing coat for new steel structures in serverly corrosive atmospheric environments. | 82% | 209 g/L; 1.7 lbs/gal | 75 µm 3 mils | | Glossy | 10.9 m ² /L - 75 µm; 437.1 sqft/gal - 3 mils | 2 | 5.6:4.4 | 4 hrs | 6hrs |  |
| Hempathane HS 55610 | Polyurethane. VOC compliant, high build finishing coat or direct-to-metal coating for protection of structural steel in corrosive environments. Contains zinc phospate. | 67% | 336 g/L; 2.8 lbs/gal | 100 µm 4 mils | | Glossy | 6.7 m ² /L - 100 µm; 268.7 sqft/gal - 4 mils | 2 | 7:1 | 2 hrs | 5hrs |  |
| Hempathane 55210 | Acrylic polyurethane. Glossy finishing coat where light fastness and gloss retention are required in severely corrosive atmospheres. | 51% | 442 g/L; 3.7 lbs/gal | 50 µm 2 mils | | Glossy | 10.2 m ² /L - 50 µm; 409 sqft/gal - 2 mils | 2 | 7:1 | 4 hrs | 8hrs |  |
| Hempatex Enamel 56360 | Acrylic resin and nonchlorinated plasticizer enamel. Finishing coat for optimum gloss and color retention. Resistant to salt water, splashes of aliphatic hydrocarbons and animal and vegetable oils. | 31% | 606 g/L; 5 lbs/gal | 35 µm 1.4 mils | | Semi-Gloss | 8.9 m ² /L - 35 µm; 356.9 sqft/gal - 1.4 mils | 1 | N/A | N/A | 3-4hrs |  |

Specialty tanks

Cargo ballast, cargo hold and potable water

| Product | Description | VS% | VOC | | Rec DFT | Theoretical spreading rate | Components | Mixing ratio | Pot life @ 20°C/68°F | Dry-to-touch @20°C/68°F | Application method |
|---|---|------|-------------------------|--|-------------------|--|------------|--------------|----------------------|-------------------------|--------------------|
| Ballast tanks | | | | | | | | | | | |
| Hempadur Quattro XO 17820 | Universal pure epoxy. A hard tough coating with excellent resistance to abrasion and seawater including water ballast tank service. The product is available with Fiber pigmentation. | 80% | 190 g/L; 1.6 lbs/gal | | 125 µm 5 mils | 6.4 m²/L - 125 µm; 256.6 sqft/gal - 5 mils | 2 | 4:1 | 1.5hrs | 2hrs | |
| Hempadur Quattro 17634 | Universal epoxy. Resistant to abrasion, seawater and various oils. Meets IMO PSPC requirements for water ballast tanks and cargo oil. FDA 175.300 dry foodstuff. | 72% | 277 g/L; 2.3 lbs/gal | | 125 µm 5 mils | 5.8 m²/L - 125 µm; 232.6 sqft/gal - 5 mils | 2 | 4:1 | 2hrs | 4hrs | |
| Hempadur EM 35740 | A two-component, ultra high solids and very low VOC epoxy coating. Good self priming properties and is suited for application even under humid conditions and on marginally prepared surfaces. | 97% | 52 g/L; 0.4 lbs/gal | | 150 µm 6 mils | 6.5 m²/L - 150 µm; 260.6 sqft/gal - 6 mils | 2 | 2:1 | 1hr | 8hrs | |
| Cargo holds | | | | | | | | | | | |
| Hempadur Quattro XO 17820 | Universal pure epoxy. A hard tough coating with excellent resistance to abrasion and seawater. The product is available with different levels of aluminium and fiber pigmentation to deliver tailor made optimised properties for a different harsh service conditions. | 80% | 190 g/L; 1.6 lbs/gal | | 125 µm 5 mils | 6.4 m²/L - 125 µm; 256.6 sqft/gal - 5 mils | 2 | 4:1 | 1.5hrs | 2hrs | |
| Hempadur Quattro 17634 | Universal epoxy. Resistant to abrasion, seawater and various oils. Meets IMO PSPC requirements for water ballast tanks and cargo oil. FDA 175.300 dry foodstuff. | 72% | 277 g/L; 2.3 lbs/gal | | 125 µm 5 mils | 5.8 m²/L - 125 µm; 232.6 sqft/gal - 5 mils | 2 | 4:1 | 2hrs | 4hrs | |
| Cargo tanks | | | | | | | | | | | |
| Hempadur 15500 | Amine adduct cured phenolic epoxy (novolac). Tank lining with excellent resistance to a wide range of chemicals - see Hempel's cargo protection guide. | 68% | 321 g/L; 2.7 lbs/gal | | 100 µm 4 mils | 6.8 m²/L - 100 µm; 272.7 sqft/gal - 4 mils | 2 | 8.9:1.1 | 3hrs | 4-6hrs | |
| Hempadur multi-strength 35530 | Solvent-free polyamine cured epoxy. Tank lining with good resistance to salt water, fresh water, crude oil and abrasion. A lining for potable water tanks and pipelines (Certified NSF/ANSI standard 61). | 100% | 9 g/L; 0.1 lbs/gal | | 300 µm 12 mils | 3.3 m²/L - 300 µm; 132.3 sqft/gal - 12 mils | 2 | 3:1 | 1hr | 24hrs | |
| Hempadure multi-strength GF Epoxy 3587A | High build glass flake epoxy. Lining which is impact and abrasion resistant. Good resistance to seawater, mineral oil, aliphatic hydrocarbons and splashes from petrol and related products. Will continue to cure underwater. | 87% | 179 g/L; 1.5 lbs/gal | | 350 µm 14 mils | 2.5 m²/L - 350 µm; 100.2 sqft/gal - 14 mils | 2 | 4:1 | 1hr | 6hrs | |
| Hempadur 85671 | Amine adduct cured phenolic epoxy (novolac). Very good adhesion and high temperature, water and chemical resistance - see Hempel's cargo protection guide. Lining for tanks, pipelines with service temperature range of 196°C/-32°F to 205°C/401°F. | 68% | 316 g/L; 2.6 lbs/gal | | 100 µm 4 mils | 6.8 m²/L - 100 µm; 272.7 sqft/gal - 4 mils | 2 | 8.8:1.2 | 3hrs | 4-6hrs | |
| Cargo tanks | | | | | | | | | | | |
| Hempadur multi-strength 35530 | Solvent-free polyamine cured epoxy. Good resistance to salt water, fresh water, crude oil and abrasion. A lining for potable water tanks and pipelines (Certified NSF/ANSI standard 61). | 100% | 9 g/L; 0.1 lbs/gal | | 300 µm 12 mils | 3.3 m²/L - 300 µm; 132.3 sqft/gal - 12 mils | 2 | 3:1 | 1hr | 24hrs | |

Decks, topsides and superstructures

| Product | Description | VS% | VOC | | Rec DFT | Theoretical spreading rate | Components | Mixing ratio | Pot life @ 20°C/68°F | Dry-to-touch @20°C/68°F | Application method |
|---|---|-----|-------------------------|--|-------------------|--|------------|--------------|----------------------|-------------------------|--------------------|
| Decks, topsides and superstructure | | | | | | | | | | | |
| Hempadur Quattro XO 17820 | Universal pure epoxy. A hard tough coating with excellent resistance to abrasion and seawater. The product is available with different levels of aluminium and fiber pigmentation to deliver tailor made optimised properties for a different harsh service conditions. | 80% | 190 g/L; 1.6 lbs/gal | | 125 µm 5 mils | 6.4 m ² /L - 125 µm; 256.6 sqft/gal - 5 mils | 2 | 4:1 | 1.5hrs | 2hrs | |
| Hempadur Quattro 17634 | Universal epoxy. Cures to a hard and tough coating which is resistant to abrasion, seawater and various oils. | 72% | 277 g/L; 2.3 lbs/gal | | 125 µm 5 mils | 5.8 m ² /L - 125 µm; 232.6 sqft/gal - 5 mils | 2 | 4:1 | 2hrs | 4hrs | |
| Hempadur Mastic 45880 | Polyamide adduct cured epoxy. Self-primed high solids coating which forms a hard and tough surface and has good wetting properties and low temperature curing. A surface tolerant paint which may be used as an intermediate or finishing coat in heavy duty paint system where low VOC and high film build are required. | 80% | 216 g/L; 1.8 lbs/gal | | 125 µm 5 mils | 6.4 m ² /L - 125 µm; 256.6 sqft/gal - 5 mils | 2 | 3:1 | 1hr | 4hrs | MIO MTT |
| Hempadur Mastic 45881 | Polyamide adduct cured epoxy. Self-primed high solids coating which forms a hard and tough surface and has good wetting properties. A surface tolerant paint which may be used as an intermediate or finishing coat in heavy duty paint system where low VOC and high film build are required. | 80% | 218 g/L; 1.8 lbs/gal | | 125 µm 5 mils | 6.4 m ² /L - 125 µm; 256.6 sqft/gal - 5 mils | 2 | 3:1 | 1hr | 3hrs | MIO MTT |
| Hempatex Hi-build 46410 | Acrylic resin and nonchlorinated plasticizer. High build primer, intermediate or finishing coat with a flat finish and good color retention. Resistant to saltwater, aliphatic hydrocarbons and vegetable oils. | 42% | 509 g/L; 4.2 lbs/gal | | 100 µm 4 mils | 4.2 m ² /L - 100 µm; 168.4 sqft/gal - 4 mils | 1 | N/A | N/A | 4hrs | MTT |
| Hempadur OBM 47150 | High build epoxy paint. It forms a hard and tough coating resistant to seawater, mineral oils and splashes from petrol and related products. For repair and maintenance work at application temperatures above 0°C/32°F on hatch covers, decks, in cargo holds. | 55% | 424 g/L; 3.5 lbs/gal | | 75 µm 3 mils | 7.3 m ² /L - 75 µm; 292.7 sqft/gal - 3 mils | 2 | 3:1 | 5hrs | 4hrs | |
| Hempalin Enamel 52140 | Alkyd enamel. General purpose glossy finishing coat on interior and exterior steel, woodwork and engine rooms. Weather resistant. Resistant to salt water, spillage of mineral oil and other aliphatic hydrocarbons. A low flame spread material. | 46% | 425 g/L; 3.6 lbs/gal | | 30 µm 1.2 mils | 15.3 m ² /L - 30 µm; 613.5 sqft/gal - 1.2 mils | 1 | N/A | N/A | 6-8hrs | MTT |
| Hempathane HS 55610 | Polyurethane. VOC compliant, high build finishing coat or direct-to-metal coating for protection of structural steel in corrosive environments. Contains zinc phosphat. | 67% | 336 g/L; 2.8 lbs/gal | | 100 µm 4 mils | 6.7 m ² /L - 100 µm; 268.7 sqft/gal - 4 mils | 2 | 7:1 | 2hrs | 5hrs | |
| Hempathane 55210 | Acrylic polyurethane. Glossy finishing coat where light fastness and gloss retention are required in severely corrosive atmospheres. | 51% | 442 g/L; 3.7 lbs/gal | | 50 µm 2 mils | 10.2 m ² /L - 50 µm; 409 sqft/gal - 2 mils | 2 | 7:1 | 4hrs | 8hrs | MTT |
| Hempatex Enamel 56360 | Acrylic resin and nonchlorinated plasticizer enamel. Finishing coat for optimum gloss and color retention. Resistant to salt water, splashes of aliphatic hydrocarbons and animal and vegetable oils. | 31% | 606 g/L; 5 lbs/gal | | 35 µm 1.4 mils | 8.9 m ² /L - 35 µm; 356.9 sqft/gal - 1.4 mils | 1 | N/A | N/A | 3-4hrs | MTT |
| Hempel's Anti-slint 67500 | Silica sand. Flame dried of which the average particle size is approximately 0.5 millimetres. To obtain anti-skid properties on decks and other areas where a skid-proof surface is required. | N/A | 0 | | N/A | 2.6 kg/L; 21.9 lbs/gal | N/A | N/A | N/A | N/A | N/A |

Accomodation

| Product | Description | VS% | VOC | | Rec DFT | Theoretical spreading rate | Components | Mixing ratio | Pot life @ 20°C/68°F | Dry-to-touch @20°C/68°F | Application method |
|---------------------------|---|-----|-------------------------|--|-------------------|--|------------|--------------|----------------------|-------------------------|--------------------|
| Accomodations | | | | | | | | | | | |
| Hempalin Primer 12050 | Alkyd primer. General purpose quick drying zinc phosphate primer for steel in mild to medium atmospheric environment. Approved as low flame spread. | 49% | 407 g/L; 3.4 lbs/gal | | 40 µm 1.6 mils | 12.3 m ² /L - 40 µm; 493.2 sqft/gal - 1.6 mils | 1 | N/A | N/A | 2-4hrs | |
| Hempel's Uni-Primer 13140 | Epoxy ester uni-primer. A versatile primer for steel and metal surfaces for Hempalin or Hempatex systems in mild to medium corrosive atmospheric environment. Approved as a low flame spread material. | 42% | 517 g/L; 4.3 lbs/gal | | 50 µm 2 mils | 8.4 m ² /L - 50 µm; 336.8 sqft/gal - 2 mils | 1 | N/A | N/A | 2hrs | |
| Hempadur Mastic 45880 | Polyamide adduct cured epoxy. Self-primed high solids coating which forms a hard and tough surface and has good wetting properties and low temperature curing. A surface tolerant paint which may be used as an intermediate or finishing coat in heavy duty paint system where low VOC and high film build are required. | 80% | 216 g/L; 1.8 lbs/gal | | 125 µm 5 mils | 6.4 m ² /L - 125 µm; 256.6 sqft/gal - 5 mils | 2 | 3:1 | 1hr | 4hrs | |
| Hempadur Mastic 45881 | Polyamide adduct cured epoxy. Self-primed high solids coating which forms a hard and tough surface and has good wetting properties. A surface tolerant paint which may be used as an intermediate or finishing coat in heavy duty paint system where low VOC and high film build are required. | 80% | 218 g/L; 1.8 lbs/gal | | 125 µm 5 mils | 6.4 m ² /L - 125 µm; 256.6 sqft/gal - 5 mils | 2 | 3:1 | 1hr | 3hrs | |
| Hempalin Enamel 52140 | Alkyd enamel. General purpose glossy finishing coat on interior and exterior steel, woodwork and engine rooms. Weather resistant. Resistant to salt water, spillage of mineral oil and other aliphatic hydrocarbons. A low flame spread material. | 46% | 425 g/L; 3.5 lbs/gal | | 30 µm 1.2 mils | 15.3 m ² /L - 30 µm; 613.5 sqft/gal - 1.2 mils | 1 | N/A | N/A | 6-8hrs | |

RAL / Hempel colors

RAL 1000 22500
 RAL 1001 24900
 RAL 1002 20470
 RAL 1003 27030
 RAL 1004 27040
 RAL 1005 27050
 RAL 1006 20820
 RAL 1007 27070
 RAL 1011 27110
 RAL 1012 23120
 RAL 1013 17130
 RAL 1014 20420
 RAL 1015 27150
 RAL 1016 27160
 RAL 1017 27170
 RAL 1018 27180
 RAL 1019 27190
 RAL 1020 27200
 RAL 1021 20250
 RAL 1023 27230
 RAL 1024 27240
 RAL 1026 27260
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 RAL 1028 27280
 RAL 1032 27320
 RAL 1033 27330
 RAL 1034 27340
 RAL 1035 19350
 RAL 1037 27370
 RAL 2000 22120
 RAL 2001 50060
 RAL 2002 57020
 RAL 2003 57030
 RAL 2004 50190
 RAL 2005 50180
 RAL 2007 57070

RAL 2008 57080
 RAL 2009 57090
 RAL 2010 57100
 RAL 2011 57110
 RAL 2012 57120
 RAL 2013 59130
 RAL 3000 50170
 RAL 3001 57150
 RAL 3002 50740
 RAL 3003 51710
 RAL 3004 50100
 RAL 3005 51800
 RAL 3007 57370
 RAL 3009 53090
 RAL 3011 57310
 RAL 3012 57320
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 RAL 3014 57340
 RAL 3015 57350
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 RAL 3017 57470
 RAL 3018 57480
 RAL 3020 57200
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 RAL 3024 57540
 RAL 3026 50090
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 RAL 3031 57410
 RAL 4001 37010
 RAL 4002 57620
 RAL 4003 57630
 RAL 4004 57640
 RAL 4005 37050
 RAL 4006 57660
 RAL 4007 57670
 RAL 4008 57680

RAL 4009 57690
 RAL 4010 57700
 RAL 4012 38120
 RAL 5000 37000
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 RAL 7032 11320
 RAL 7033 17330
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 RAL 7036 11730
 RAL 7037 11370
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 RAL 7039 17390
 RAL 7040 17700
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 RAL 7044 17740
 RAL 7045 17750
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 RAL 7047 11170
 RAL 7048 17480
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 RAL 9003 17630
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 RAL 9006 19000
 RAL 9007 19870
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 RAL 9011 17910
 RAL 9016 17760
 RAL 9017 17970
 RAL 9018 17980
 RAL 9022 19360
 RAL 9023 19230

About Hempel

As a world-leading supplier of trusted coating solutions, Hempel is a global company with strong values, working with customers in the protective, marine, decorative, container and yacht industries. Hempel factories, R&D centers and stock points are established in every region.

Across the globe, Hempel's coatings protect surfaces, structures and equipment. They extend asset lifetimes, reduce maintenance costs and make homes and workplaces safer and more colorful. Hempel was founded in Copenhagen, Denmark in 1915. It is proudly owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian and scientific purposes around the world.

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