

Frequently used paints

Protective coatings



A Guide to Hempel's frequently used paints

This overview presents paints designated for anticorrosion protection. These products are widely available and produced at Hempel's state of the art manufacturing sites. Other paints, for a wide variety of purposes, those unique to local assortments and custom coatings are not included here. To obtain detailed information, specifications and pricing for a particular project, please contact your local sales representative or local Hempel office.

Protecting Your Investments

Hempel is a world-leading coatings supplier, which was founded in 1915 by J.C. Hempel. Today, over a century later, the company has grown to become the largest independent supplier of coatings for the protective, marine, container, yacht and decorative market segments.

From wind turbines and bridges to civil buildings, airports, power plants, cranes and many other facilities, Hempel's protective coatings protect man-made structures from the corrosive forces of nature. We are focused on R&D, advanced production techniques and professional coating advice. We work around the globe to help keep our customers' investments safe and beautiful. Our working concept is simple: we are curious, creative and self-critical, and always aim to create extra value for our customers.

Hempel provides a full range of high-performance protective coatings, backed up with a precise technical service. As a result, you get a coating solution for your specific needs which will keep your assets safe and reduce your maintenance costs.

Numerous testing and research institutions have given their approval to Hempel's paints. The products are certified for various operating conditions and meet today's regulatory requirements.



Waterborne



Micaceous Iron Oxide



Multi-Tint



Air Spray



Airless Spray



Spatula



Brush



Roller

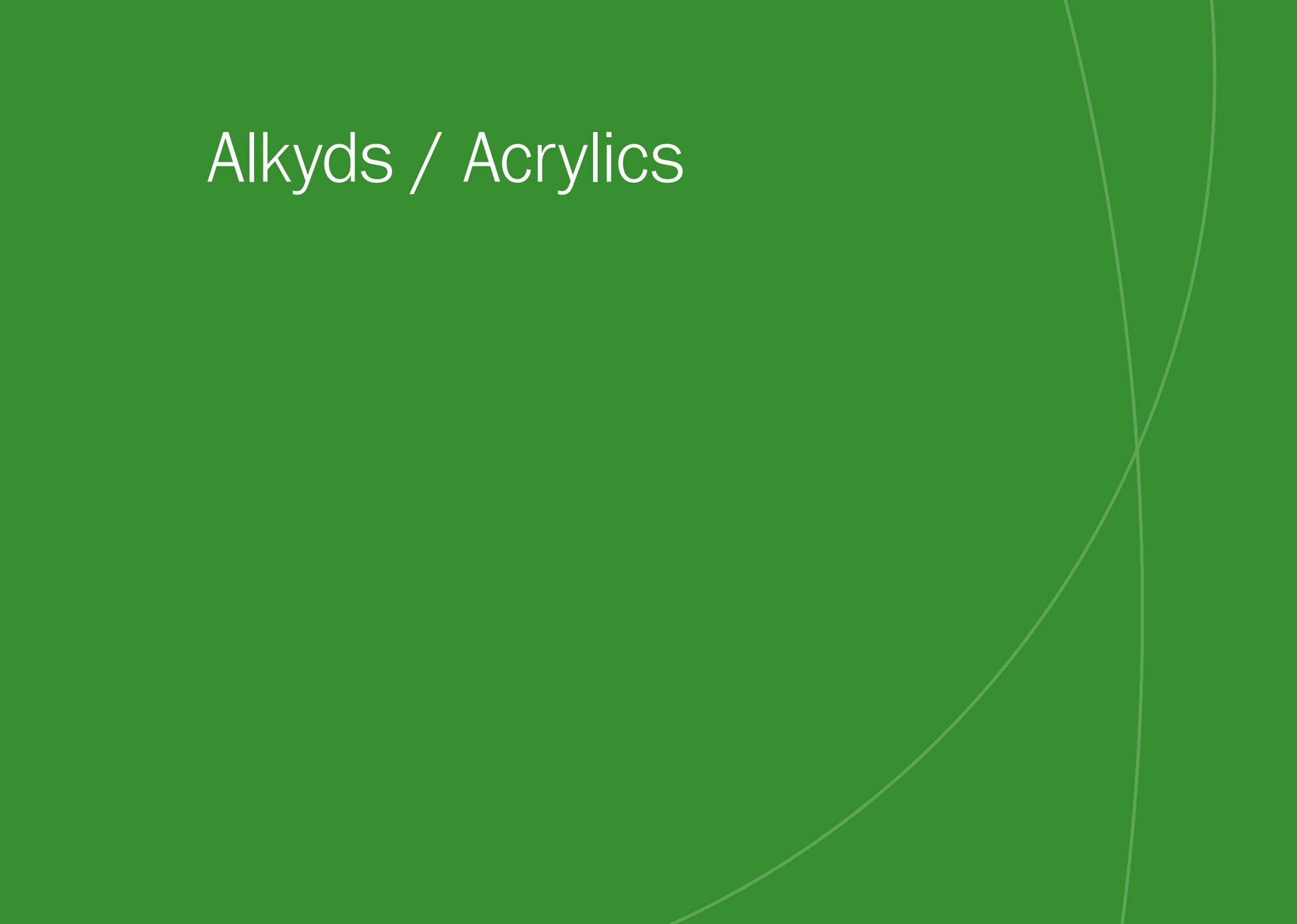
Activated Zinc Epoxy Primers



Activated Zinc Epoxy Primers	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Surface dry 20°C	Theoretical spreading rate	DFT range
Hempadur Avantguard® 550	<ul style="list-style-type: none"> Complies with the requirements for Level 3, type II in SSPC Paint 20, 2002 Reduces the effect of corrosion Excellent protection Good mechanical strength in cyclic temperatures Improved crack resistance through high flexibility and self-healing of micro cracks High tolerance to different climatic conditions Complies with EU Directive 2004/42/EC 	As a versatile primer for long-term protection of steel in severely corrosive environments.	19840 dark grey	flat	65	325 g/l	10 minutes	10.8 m ² /l 60 µm	40 - 100 µm
Hempadur Avantguard® 750	<ul style="list-style-type: none"> Complies with the requirements in ISO 12944 Part 5, 2018 and Level 2, type II in SSPC Paint 20, 2002 High tolerance to different climatic conditions (high temperature and humidity) during application as well as to high dry film thickness Reduces the effect of corrosion Excellent protection Good mechanical strength in cyclic temperatures Improved crack resistance through high flexibility and self-healing of micro cracks Anticorrosive performance in compliance with NORSOK M-501 Fast curing Easy to apply Retains its properties even at excessive application Complies with EU Directive 2004/42/EC 	As a versatile primer for long-term protection of steel in severely corrosive environments.	19840 dark grey	flat	65	330 g/l	10 minutes	10.8 m ² /l 60 µm	40 - 100 µm

* the variance of the values is ± 1%

Alkyds / Acrylics

The background is a solid green color. On the right side, there are two thin, white, curved lines that sweep across the page, creating a decorative graphic element.

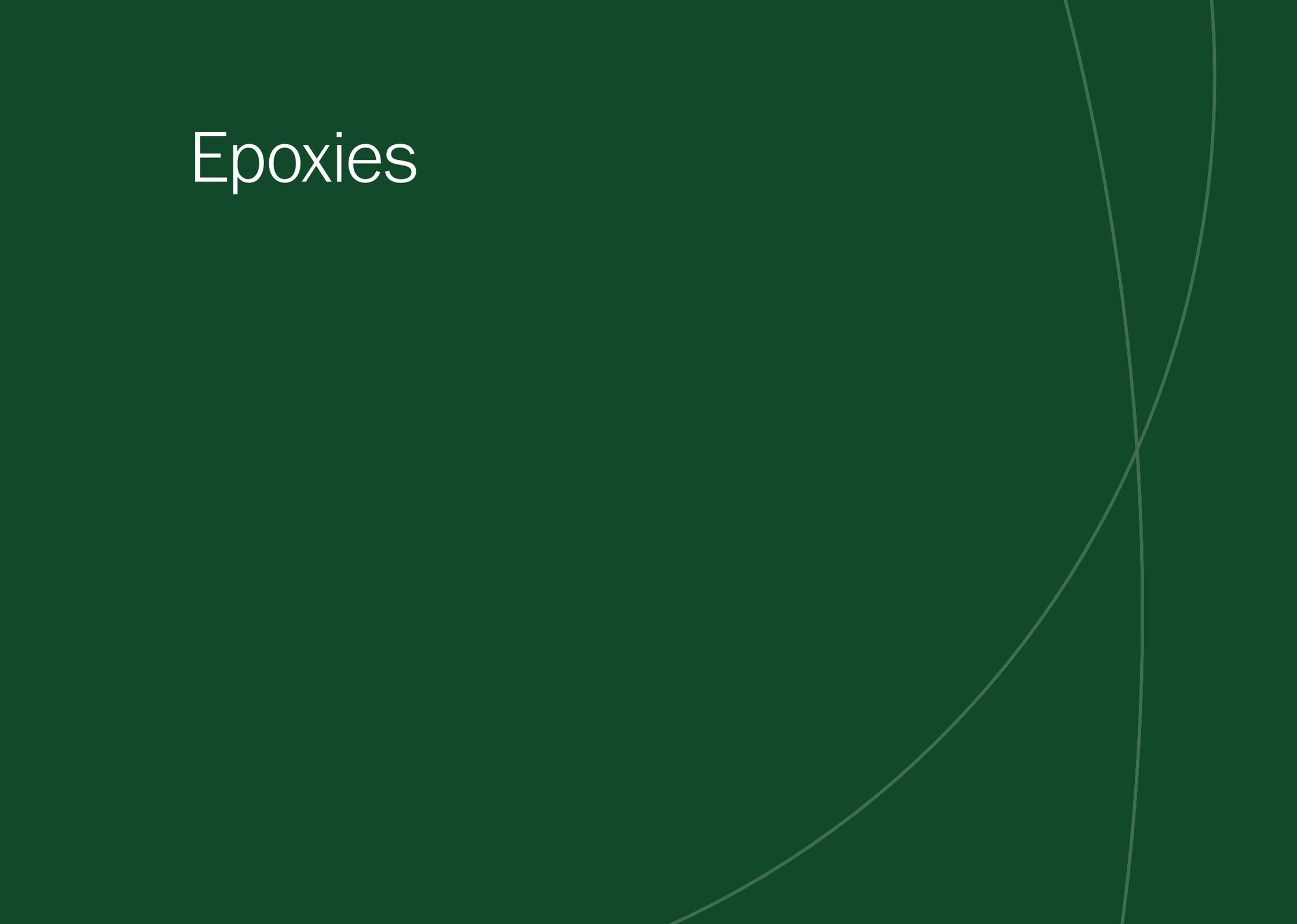
Alkyds	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Dry to touch 20°C	Theoretical spreading rate	DFT range	
Hempel's Speed-dry Alkyd 43140	<ul style="list-style-type: none"> Fast-drying Perfect solution for in shop application Good adhesion to steel Does not contain any lead and chromates Good results with brush application Contains zinc phosphate Excellent recoatability with polyurethane, alkyd and chlorinated rubber topcoats Complies with EU Directive 2004/42/EC 	  	A single/double coat anticorrosive primer/finish for steel structures and general steel work. Can be used for a multitude of applications; for heavy and light steel industry, in exterior and interior steel surfaces, in mild to medium atmospheric corrosive environments.	 11150 grey **	flat	49	444 g/l	15 minutes	7 m ² /l 70 µm	40 - 120 µm
Hempel's Silvium 51570	<ul style="list-style-type: none"> Contains aluminium Good light reflection Complies with Section 175.300 of the Code of Federal Regulations Title 21 - Dry Foodstuff Tested for non-contamination of grain cargo at the Newcastle Occupational Health & Hygiene, GB Complies with EU Directive 2004/42/EC: subcategory i 	  	As a finishing coat on interior and exterior steel and woodwork in mild to moderately corrosive environments where an aluminium surface or light reflection is desired, and/or for moderately hot surfaces.	19001 aluminium	glossy	38	506 g/l	approx. 5 hours	15.2 m ² /l 25 µm	indicated dft: 25 µm
Hempalin Enamel 52140	<ul style="list-style-type: none"> Weather resistant Flexible Resistant to salt water, mineral oil spillage and aliphatic hydrocarbons Approved as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on www.hempel.com Complies with EU Directive 2004/42/EC, subcategory i 	  	As a general purpose finishing coat in an alkyd system on exterior and interior steel and woodwork in mildly to moderately corrosive environments. As a finishing coat in engine rooms, tank tops, main engines and auxiliary machinery.	 10000 white	glossy	46	429 g/l	surface dry: approx. 2.5 hours at 20°C	15.3 m ² /l 30 µm	30 - 40 µm
Hempaquick Enamel 53840	<ul style="list-style-type: none"> Good gloss and colour retention Fast-drying 	  	Topcoat on steel in mild to moderately corrosive environments.	 10000 white	glossy	41	519 g/l	surface dry: approx. 30 minutes at 20°C	9.8 m ² /l 40 µm	indicated dft: 25 µm
Hempel's Speed-Dry Primer 13770	<ul style="list-style-type: none"> Is a quick drying alkyd primer, containing zinc phosphate to enhance the anti-corrosion properties. 	  	General purpose primer for protection of steel in mild atmospheric corrosive environments.	15680 grey	flat	57	383 g/l	dry to touch: approx. 30 minutes at 20 °C	14.3 m ² /l 40 µm	60 - 80 µm

* the variance of the values is ± 1%
** aluminium pigmented shade 19760

Acrylics	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Surface dry 20°C	Theoretical spreading rate	DFT range
Hemucryl Primer Hi-Build 18032	<ul style="list-style-type: none"> Waterborne Good anticorrosive properties Especially suited for application by airless spray Approved as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on www.hempel.com Complies with EU Directive 2004/42/EC: subcategory i   	Primer in waterborne paint systems on interior and exterior steelwork in mildly to moderately corrosive environments. May also be used as a primer in waterborne paint systems on hot dip galvanised steel, aluminium, and stainless steel in mildly corrosive environments.	12710 grey	matt	59	41 g/l	approx. 30 minutes	5.7 m ² /l 75 µm	50 - 100 µm
Hempatex Hi-Build 46410	<ul style="list-style-type: none"> Physically drying Good colour retention Resistant to salt water, splashes of aliphatic hydrocarbons, animal and vegetable oils Contains zinc phosphate Approved by CSIRO, Australia for carriage of foodstuffs   	Primer, intermediate coat or topcoat for Hempatex systems in moderately corrosive environments. Selfprimed repair and touch-up coating or topcoat for containers.	 11480 grey	flat	42	508 g/l	approx. 1 hour	4.2 m ² /l 100 µm	50 - 125 µm
Hempel's Pro Acrylic 55883	<ul style="list-style-type: none"> Two-component, isocyanate-free, acrylic finishing coat with good gloss and colour retention It is resistant to water and spillage of aliphatic hydrocarbons. Minimum curing temperature is 0°C/32°F.  	As a finishing coat for protection of structural steel in severely corrosive environment, where lightfastness and gloss retention are required	 10000 white	glossy	58	362 g/l	4.5 hour	10.8 m ² /l 50 µm	50 - 100 µm
Hempatex Enamel 56360	<ul style="list-style-type: none"> Good gloss and colour retention Physically drying Resistant to salt water, splashes of aliphatic hydrocarbons and animal and vegetable oils   	Topcoat for interiors and exteriors on Hempatex systems in moderately to severely corrosive environments.	 10000 white	glossy	32	594 g/l	approx. 1 hour	9.1 m ² /l 35 µm	indicated dft: 35 µm
Hemucryl Enamel Hi-Build 58030	<ul style="list-style-type: none"> Waterborne High gloss retention Good weathering properties Dries to a non-yellowing and glossy coating with low dirt pick-up Especially suited for application by airless spray Complies with EU Directive 2004/42/EC: subcategory i. Approved as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on www.hempel.com   	Glossy, finishing coat in waterborne paint systems, interior and exterior, in moderately to severe corrosive environments.	 10000 white	glossy	44	52 g/l	approx. 45 minutes	5.9 m ² /l 75 µm	50 - 100 µm

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 ** aluminium pigmented shade 19760

Epoxies

The image features a dark green background with the word "Epoxies" written in white, sans-serif font in the upper left quadrant. On the right side, there are two thin, white, curved lines that sweep across the page, creating a modern, abstract design element.

Epoxies	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Dry to touch 20 °C	Theoretical spreading rate	DFT range
Hempel's Shopprimer E 15275	<ul style="list-style-type: none"> Pigmented with zinc phosphate rust-inhibiting pigments Quick drying, fast handling Designed for automatic spray application 	Shopprimer for the protection of blast-cleaned steel plates and other structural steel during the storage and building period.	50890 red	flat	26	635 g/l	dry to handle: approx. 6 minutes at 20 °C	See product data sheet	15 - 25 µm
Hempadur 15553	<ul style="list-style-type: none"> Excellent adhesion properties Abrasion and impact resistant Contains zinc phosphate Cures down to -10 °C Complies with EU Directive 2004/42/EC Approved as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on www.hempel.com 	Primer for Hempatex, Hempadur and Hemptthane systems, on hot dipped galvanised surfaces and aluminium and stainless steel in moderately corrosive environments. Also applicable when roughening of the surface is not possible.	11320 off-white	flat	55	389 g/l	approx. 3 hours	11 m²/l 50 µm	50 - 80 µm
Hempadur 1555E	<ul style="list-style-type: none"> Polyamide-adduct cured Good adherence Abrasion and impact resistant Contains zinc phosphate Cures down to -10 °C Highways Approved Item No.110 	Primer for Hempatex, Hempadur and Hemptthane systems on steel and for hot dipped galvanised surfaces, aluminium and stainless steel.	22430 cream	flat	40	531 g/l	surface dry: approx. 1 hour at 20 °C	10 m²/l 40 µm	30 - 50 µm
Hempadur 15570	<ul style="list-style-type: none"> Polyamide-adduct cured Highly corrosion resistant Cures down to -10 °C Complies with EU Directive 2004/42/EC Shades 21780 and 11320 contain zinc phosphate 	Maintenance and repair primer, intermediate coat and topcoat in Hempadur systems in severely corrosive conditions. Finishing coat where a cosmetic appearance is of less importance. As a low temperature curing epoxy primer, intermediate, and/or finishing coat in paint systems according to specification. Suitable as a (blast) primer in epoxy systems and mist coating on Galvosil.	12430 / MIO reddish grey	flat	54	415 g/l	3 - 4 hours	5.4 m²/l 100 µm	50 - 125 µm

* the variance of the values is ± 1%

Epoxies	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Dry to touch 20 °C	Theoretical spreading rate	DFT range
Hempadur Zinc 17360	<ul style="list-style-type: none"> • Zinc rich content • Fast-drying • Hardwearing and highly weather resistant • Cathodic protection of local mechanical damage • Application and curing temperatures above: -10 °C • Complies with SSPC-Paint 20, type 2, level 2, ISO 12944-5 and EU Directive 2004/42/EC: subcategory j • Highways Approved Item No.109 	VOC-compliant versatile, long-term primer on steel for epoxy, vinyl and acrylic coating systems in medium to severely corrosive environments.	19830 reddish grey	flat	65	310 g/l	approx. 30 minutes	13 m ² /l 50 µm	50 - 75 µm
Hempadur Quattro 17634	<ul style="list-style-type: none"> • Hard and tough coat • Good abrasion, sea water and various oils resistant • Excellent anticorrosive and very good mechanical properties • Application and curing temperatures above: -10 °C • Fast-drying • Complies with IMO-PSPC requirements (Resolutions MSC.215(82) and MSC.288(87)) • Complies with Section 175.300 of the Code of Federal Regulations Title 21 - Dry Foodstuff • Approved as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on www.hempel.com 	Universal epoxy and self-primed high performance coating system for atmospheric or in-water service, water ballast tanks and cargo oil tanks. For in-shop applications where fast recoating and handling is required.	50630 red	semi-flat	72	276 g/l	surface dry: approx. 2 hours at 20 °C	5.8 m ² /l 125 µm	100 - 200 µm
Hemudur 18500	<ul style="list-style-type: none"> • Waterborne • Contains zinc phosphate as corrosion inhibiting pigment • Cures to a strong and rust-preventing coat • Complies with EU Directive 2004/42/EC: subcategory j 	As a general purpose primer on steel constructions.	12170 grey	semi-flat	50	22 g/l	surface dry: approx. 2 hours at 20 °C	6.7 m ² /l 75 µm	50 - 100 µm

* the variance of the values is ± 1%

Epoxies	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Surface dry 20°C	Theoretical spreading rate	DFT range
Hempadur 35560	<ul style="list-style-type: none"> Solvent-free, high-build, polyamine adduct cured epoxy Good resistance to fresh water Benzyl alcohol free Excellent anticorrosive properties Conforms to NORSOK M-501, edition 6, system nos. 7A and 7B Approved for potable water use by WRAS up to 35 °C Certified by NSF/ANSI standard 61 - Drinking Water System Components - Health effects, NSF International Approved by Folkehelseinstituttet, Norway for use in tanks for potable water offshore 	  <p>As a lining in potable water tanks and pipelines. As a self-primed, high-build coating, primarily for areas subject to abrasion and/or to a highly corrosive environment. E.g. Splash zones, jetty and bridge pilings and decks.</p>	50900 light red	glossy	100	0 g/l	surface dry: approx. 12 hours at 20 °C	5 m ² /l 200 µm	200 - 400 µm
Hempadur Multi-Strength GF 35870	<ul style="list-style-type: none"> Reinforced with glassflakes Hard, impact and abrasion resistant Good resistance to sea water, mineral oils, aliphatic hydrocarbons, splashes from petrol and related products Suitable for early water exposure and will continue to cure under water Low VOC Highways Approved Item No.123 	 <p>As a self-primed, high-build coating primarily for areas subject to abrasion and/or highly corrosive environments. E.g. splash zones, jetty pilings and working decks. Can be used as interior lining for crude oil and fuel oil storage tanks.</p>	19990 black	glossy	87	227 g/l	approx. 4 hours	2.5 m ² /l 350 µm	350 - 500 µm
Hempadur Speed-dry ZP 600	<ul style="list-style-type: none"> Self-priming, high-build epoxy Contains zinc phosphate High solids Fast drying Cures down to 0 °C 	  <p>As a fast curing primer or intermediate coat in mild to severely corrosive environments. As a topcoat where the usual cosmetic performance of epoxy coatings is acceptable. As a single coat, direct to metal in mild corrosive environments.</p>	18620 grey	flat	71	280 g/l	approx. 2 hours	7.1 m ² /l 100 µm	75 - 200 µm

* the variance of the values is ± 1%

Epoxies	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Dry to touch 20 °C	Theoretical spreading rate	DFT range	
Hempadur 45143	<ul style="list-style-type: none"> • Hard and tough coating • Good wetting properties • Low water permeability • Abrasion and impact resistant • Resistant to seawater, mineral oils, aliphatic hydrocarbons, petrol splashes and related products • Harmless to grain cargoes • Complies with EU Directive 2004/42/EC • Complies with Section 175.300 of the Code of Federal Regulations Title 21 - Dry Foodstuff • Tested for non-contamination of grain cargo at Newcastle Occupation Health & Hygiene, GB 	 	<p>Use in cold climates. A high-build primer, intermediate and/or finishing coat in (heavy duty) paint systems, according to specification. As a finishing coat where a cosmetic appearance is of less importance. For repair and maintenance work at application temperatures above -10 °C on hatch covers, decks, in cargo holds and ballast tanks etc.</p>	 <p>50630 red</p>	semi-gloss	60	367 g/l	approx. 5 hours at 5 °C	4 m ² /l 150 µm	80 - 175 µm
Hempadur Multi-Strength 45540	<ul style="list-style-type: none"> • Abrasion and corrosion resistant • Applicable by standard heavy duty airless spray equipment • Suited for application under humid conditions and for early water exposure 		<p>As a maintenance and repair primer in Hempadur systems in severely corrosive environments. As a self-primed, high build coating primarily for maintenance of jetty pilings, ballast tanks etc.</p>	 <p>19990 black</p>	glossy	84	176 g/l	4 hours	2.4 m ² /l 350 µm	125 - 350 µm
Hempadur Speed-Dry ZP 500	<ul style="list-style-type: none"> • Two-component epoxy paint, which combines high volume solids with a short drying time and optimized properties for shop application of full coating systems • Contains zinc phosphate for better corrosion protection 	 	<p>Hempadur Speed-Dry ZP 500 is suitable for onshore corrosion protection of new-build steel constructions where fast to handle and short overcoating times are required, such as steel for factory buildings, stadiums, exhibition halls, airports, power plants, refineries, chemical and petrochemical plants.</p>	 <p>17330** grey</p>	flat	75	235 g/l	2 hours	6 m ² /l 125 µm	70 - 150 µm
Hempadur Fast Dry 17410	<ul style="list-style-type: none"> • Applicable by standard heavy duty airless spray equipment • Suited for application under humid conditions and for early water exposure 	 	<p>Hempadur Fast Dry 17410 is suitable for onshore corrosion protection of new-build steel constructions where fast to handle and short overcoating times are required, such as steel for factory buildings, stadiums, exhibition halls, airports, power plants, refineries, chemical and petrochemical plants.</p>	 <p>11320** grey</p>	semi-gloss	74	246 g/l	surface dry: approx. 45 min at 20 °C	7,4 m ² /l 100 µm	70 - 125 µm

* the variance of the values is ± 1%
** other shades according to assortment list.

Epoxies	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Dry to touch 20 °C	Theoretical spreading rate	DFT range
Hempadur Multi-Strength 45753	<ul style="list-style-type: none"> Self-priming, high-build, pure epoxy Abrasion and aggressive corrosion resistant Application temperature from -10 °C Approved by Lloyd's Register of Shipping as a corrosion control coating Tested by Teknologisk Institut AS, Norway, and approved for internal use in pipe lines for water power generation according to NS 5417 Recognised Abrasion Resistant Ice Coating by Lloyds Register Complies with EU Directive 2004/42/EC, subcategory j 	Use in cold climates. Heavy duty coating for areas exposed to abrasion and aggressive corrosive climates, such as ramps, ship hulls and holds of bulk carriers. As a ballast tank coating for special purposes such as chemical carriers carrying hot cargoes and other purposes where "pure epoxy coating" is requested. As a finishing coat where a cosmetic appearance is of less importance.	12340 grey	semi-gloss	79	234 g/l	surface dry: approx. 2 hours at 20 °C	4 m ² /l 200 µm	150 - 300 µm
Hempadur Mastic 45880	<ul style="list-style-type: none"> Polyamide adduct cured, high-build Good wetting properties Low temperature curing (down to -5 °C) In accordance with Aramco's specification APCS 1, APCS 12, APCS 26 and 26T Complies with Section 175.300 of the Code of Federal Regulations Title 21 - Dry Foodstuff Tested for non-contamination of grain cargo at the Newcastle Occupational Health & Hygiene, GB Approved as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on www.hempel.com for further details. Complies with EU Directive 2004/42/EC: subcategory j 	Self-priming, surface tolerant system, intermediate or finishing coat in heavy duty paint systems where low VOC and high film build are required. Multipurpose coating as per specification for maintenance and minor repairs in immersed areas, including ballast tanks and underwater hulls, specifically in those cases where a need for few products outweighs more specialised coatings.** Can be specified where extended recoating properties for polyurethane topcoats are requested (typically travel coating).	12170 / grey 12430 / MIO reddish grey ***	semi-gloss	80	216 g/l	approx. 4 hours	6.4 m ² /l 125 µm	100 - 200 µm
Hempadur Mastic 4588W	<ul style="list-style-type: none"> High solids, high-build epoxy Hard and tough coating Low temperature curing (down to -10 °C) Good wetting properties Low VOC Approved as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on www.hempel.com 	Self-priming intermediate coat in heavy duty systems in atmospheric exposure, where low VOC and high film build are required. Suited for application at low temperatures (down to -10 °C) and where a relatively short recoating interval is required (one day, one coat).	12170 / grey 12430 / MIO reddish grey ***	semi-gloss	80	197 g/l	surface dry: approx. 2,5 hours at 20 °C	4 m ² /l 200 µm	100 - 200 µm

* the variance of the values is ± 1%

** Directly applicable on cured zinc silicate (GALVOSIL products) or spray-metallised surfaces to minimise popping.

*** Aluminium pigmented shade 19870 / dark alu and 19000 / light alu.

Epoxies	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Dry to touch 20°C	Theoretical spreading rate	DFT range
Hempadur ZP 47940	<ul style="list-style-type: none"> Polyamide-adduct cured Contains zinc phosphate Low VOC Fast-drying Highways Approved Item No.111  	Primer in epoxy systems in atmospheric exposure.	12170 grey	semi-gloss	76	250 g/l	approx. 2 hours	6.1 m ² /l 125 µm	100 - 150 µm
Hempadur MIO 47950	<ul style="list-style-type: none"> Polyamide-adduct cured High volume solids Low VOC Fast-drying High load of MIO pigment Highways Approved Item No.112   	Intermediate coat or topcoat in epoxy systems in atmospheric exposure.	12130 / MIO grey	semi-gloss	76	251 g/l	approx. 2 hours	6.1 m ² /l 125 µm	100 - 150 µm
Hempadur 47960	<ul style="list-style-type: none"> Polyamide-adduct cured, high-build epoxy Relatively high volume solid combined with short drying time Contains zinc phosphate Prolonged recoating intervals Complies with EU Directive 2004/42/EC, subcategory j  	Primer in mild to medium atmospheric environments. Intermediate or topcoat in epoxy systems in medium to severely corrosive atmospheric environments. One coat self priming epoxy topcoat available in various shades. **	11480 grey	semi-gloss	75	245 g/l	approx. 2 hours	6 m ² /l 125 µm	80 - 125 µm
Hempadur 85671	<ul style="list-style-type: none"> High chemical resistance Amine-adduct cured phenolic epoxy Very good adhesion High temperature and water resistant Complies with Aramco's specification APCS 2A, 2B and 2C Conforms to NORSOK M-501, system no. 3 Approved by Water Research Centre (WRAS), Great Britain, for potable water up to 23°C Complies with Section 175.300 of the Code of Federal Regulations Title 21 – Liquid and Dry Foodstuff  	Interior lining in tanks and pipelines. For hot water, brine, crude oil etc. For potable water tanks. Primer coat in specific systems.	11150 light grey	flat	68	317 g/l	surface dry: 2 - 3 hours at 20°C	6.8 m ² /l 100 µm	indicated dft: 100 µm

* the variance of the values is ± 1%
** Directly applicable on cured zinc silicate (GALVOSIL products) or spray-metallised surfaces to minimise popping.
*** Aluminium pigmented shade 19870 / dark alu and 19000 / light alu.

Intumescent / Zinc Silicates



Intumescent	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Surface dry 20°C	Theoretical spreading rate	DFT range
Hempacore One 43600	<ul style="list-style-type: none"> Solvent-borne Passive fire protection of structural steel against cellulosic fires Tested and approved according to EN13381-8 and BS476-21 for up to 120 minutes fire protection Fire protection up to 4 hours can be achieved for a limited range of massivity (Hp/A) sections at various critical temperatures Approved by GB14907-2002 up to 2½ hours CE marked product with European Technical Approval ETA 12/0581, according to ETAG018 Part 2 Approved with Certifire certificate n° CF 5146 Complies with EU Directive 2004/42/EC: subcategory i 	As intumescent fire protection for internal and external structural steel. Suitable for open beams and columns and hollow sections. As a repair and touch-up coating for damaged areas of freshly applied Hempacore One 43600. Applied in up to 1500 micron [60 mils] dry film thickness per coat (equivalent to 2000 micron [80 mils] wet film thickness).	10000 white	flat	75 ±3	320 g/l	15 minutes at 20°C and 750 µm	1 m²/l 750 µm	depends on required fire resistance
Hempacore One FD 43601	<ul style="list-style-type: none"> Fast-drying Solvent-borne Passive fire protection of structural steel against cellulosic fires Tested and approved according to EN13381-8 and BS476-21 for up to 120 minutes fire protection Fire protection up to 4 hours can be achieved for a limited range of massivity (Hp/A) sections at various critical temperatures CE marked product with European Technical Approval ETA 12/0581, according to ETAG018 Part 2 Approved with Certifire certificate n° CF 5146 Complies with EU Directive 2004/42/EC: subcategory i 	As intumescent fire protection for internal and external structural steel. Suitable for open beams and columns and hollow sections. As a repair and touch-up coating for damaged areas of freshly applied Hempacore One 43601. As in-shop applied intumescent for increased application efficiency. Applied in up to 1100 micron [43 mils] dry film thickness per coat (equivalent to 1466 micron [58 mils] wet film thickness).	10000 white	flat	75 ±3	310 g/l	15 minutes at 20°C and 750 µm	1 m²/l 750 µm	depends on required fire resistance
Hempacore AQ 48860	<ul style="list-style-type: none"> Waterborne Chlorine free Passive fire protection of structural steel against cellulosic fires VOC-free Tested and approved according to EN 13381-8 for up to 90 minutes fire protection CE marked product with European Technical Assessment ETA 13/1051, according to ETAG018 Part 2 	As intumescent fire protection for structural steel in interior conditions, where condensation may occur. It is suitable for I-beams, I-columns and hollow columns. As a repair and touch-up coating for damaged areas of freshly applied Hempacore AQ.	10000 white	flat	67 ± 3	0 g/l	16 minutes at 20°C and 750 µm	1 m²/l 750 µm	depends on required fire resistance

* the variance of the values is ± 1%
 ** Directly applicable on cured zinc silicate (GALVOSIL products) or spray-metallised surfaces to minimise popping.

Intumescent	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Surface dry 20°C	Theoretical spreading rate	DFT range
Hempafire Pro 315	<ul style="list-style-type: none"> Is a one component, solvent-borne, intumescent coating, optimised for 60 minutes for protection of structural steel against cellulosic fires. It is suitable for in-shop and on-site applications 	<p>As intumescent fire protection for structural steel in interior and exterior conditions (Up to C4 conditions ISO 12944-2). Suitable for open profile beams and columns, cellular beams and hollow section beams and columns. As a repair and touch up coating for damaged areas of freshly applied Hempafire Pro 315.</p>	10000 white	flat	75 ± 3	330g/l	15 minutes at 20°C and 750 µm	1 m²/l 750 µm	depends on required fire resistance
Hempafire Optima 500	<ul style="list-style-type: none"> Is a very low VOC, one-component waterborne acrylic thin film intumescent coating optimized for 120 minutes passive fire protection of structural steel against cellulosic fires. 	<p>As intumescent fire protection for structural steel for interior conditions up to C3 conditions (ISO 12944-2). Suitable for open beams and columns and hollow sections.</p>	10000 white	flat	70 ± 3	<1 g/l		1 m²/l 700 µm	
Zinc Silicates	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Dry to touch 20°C	Theoretical spreading rate	DFT range
Hempel's Galvosil 15700	<ul style="list-style-type: none"> Solvent-borne, self-curing, inorganic Excellent chemical resistance within the pH range 6-9 Highly weather and abrasion resistant Cathodic protection of local mechanical damage In compliance with SSPC-Paint 20, type 1, level 1 and ISO 12944-5** 	<p>As a general purpose, heavy-duty, rust-preventing primer. As a single, complete coating for long-term protection of steel exposed to moderately to severely corrosive environments and to abrasion. As a tank lining in accordance with the Cargo Protection Guide.</p>	19840 metal grey	flat	64	434 g/l	approx. 30 minutes 60 - 75% RH	12.8 m²/l 50 µm	50 - 80 µm
Hempel's Shopprimer ZS 15890	<ul style="list-style-type: none"> Solvent-borne zinc ethyl silicate shopprimer Quick drying Complies with IMO MSC.215(82) as shopprimer for ballast tank coating systems Complies with IMO MSC.288(87) as shopprimer for cargo oil tank systems 	<p>Shopprimer for short to medium-term protection of abrasive blast-cleaned steel plates and other structural steel during storage, fabrication, and construction periods. Suitable where welding (MIG/MAG) and gas-cutting properties are required.</p>	19890 reddish grey	flat	28	620 g/l	4 - 5 minutes	18.7 m²/l 15 µm	10 - 25 µm

* the variance of the values is ± 1%

** Resistant to permanent (non-cyclic) dry temperatures or occasionally dry peak temperatures of up to 500°C. Resistant to cyclic dry temperatures up to 400°C.

Polyurethanes

The background is a solid green color. On the right side, there are two thin, white, curved lines that sweep across the page. One line starts near the top right and curves downwards and to the left. The other line starts further down and curves more steeply upwards and to the left, crossing the first line.

Polyurethanes	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Surface dry 20°C	Theoretical spreading rate	DFT range
Hempel's Polyenamel 55102	<ul style="list-style-type: none"> High gloss and good colour retention Acrylic polyurethane enamel cured with aliphatic isocyanate Complies with European Fire Standard EN 13501-1; classification B-s1, d0 Complies with EU Directive 2004/42/EC: subcategory j 	<p>Glossy decorative finishing coat in severely corrosive atmospheric environments. Excellent adherence on glass-fibre, polyester reinforced with glass-fibre or wood. Direct adhesion on various substrates properly prepared, such as treated aluminium, passivated stainless steel and also on properly primed steel.</p>	 10170 white	high-gloss	52	435 g/l	approx. 2 hours	14.9 m ² /l 35 µm	30 - 40 µm
Hempathane Topcoat 55210	<ul style="list-style-type: none"> Glossy, acrylic polyurethane Good colour retention Application and curing temperature from -10°C Aliphatic-isocyanate cured Complies with European Fire Standard EN 13501-1; classification B-s1, d0 Approved as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on www.hempel.com for further details. Complies with EU Directive 2004/42/EC: subcategory j 	<p>As a finishing coat for protection of structural steel in severely corrosive atmospheric environments, where light-fastness and gloss retention are required.</p>	 10170 white	glossy	51	442 g/l	surface dry: 1 hour at 20°C	10.2 m ² /l 50 µm	40 - 75 µm
Hempathane HS 55610	<ul style="list-style-type: none"> Glossy, acrylic polyurethane topcoat Good colour retention Aliphatic-isocyanate cured Contains zinc phosphate Excellent application properties Cures down to -10°C Approved as a low flame spread material when used as part of a predefined paint system Complies with EU Directive 2004/42/EC: subcategory j 	<p>High-build, VOC-compliant topcoat for protection of structural steel in corrosive environments. May be specified as a one coat "direct to metal" system in environments classified as C2 and C3.</p>	 10170 white	glossy	67	337 g/l	approx. 3 hours	6.7 m ² /l 100 µm	50 - 125 µm

* the variance of the values is ± 1%

Polyurethanes	Product features	Recommended use	Shade	Finish	Volume solids % *	VOC	Surface dry 20°C	Theoretical spreading rate	DFT range
Hempathane HS 55613	<ul style="list-style-type: none"> • Contains zinc phosphate • Aliphatic-isocyanate cured • Good gloss and colour retention • Application temperature from -10°C • VOC-compliant • Complies with EU Directive 2004/42/EC: subcategory j • Highways Approved Item No.169 	VOC-compliant, high-build finishing coat for protection of structural steel in corrosive environments. May be specified as a one coat "direct to metal" system in environments classified as C2 and C3.	 11150 grey	semi-gloss	57	384 g/l	surface dry: 45 min at 20°C	5.7 m ² /l 100 µm	75 - 125 µm
Hempathane Fast Dry 55750	<ul style="list-style-type: none"> • Good gloss retention and colour stability • Fast-drying • Cures down to -10°C • Contains zinc phosphate • Aliphatic-isocyanate cured 	High-build, one-coat system in compliance with the VOC provisions for protecting steel structures in moderately corrosive environments. May be used as an undercoated intermediate coat or topcoat within the system.	 10170 grey	semi-gloss	65	328 g/l	dry to touch: approx. 1 hour at 20°C	6.5 m ² /l 100 µm	60 - 160 µm
Hempathane HS 55810	<ul style="list-style-type: none"> • Very good gloss and colour retention • Aliphatic-isocyanate cured • Low VOC • Curing temperature from -10°C • Complies with Network Rail Specification NR/L3/CN7 item number 7.3.1. as a durable two-pack finish for both new works and maintenance paint system • Complies with European Fire Standard EN 13501-1; classification B-s2, d0 • Highways Approved Item No.168 	Finishing coat for protection of structural steel in severely corrosive atmospheric environments. Durable two component finish for both new works and maintenance coating systems.	 45180 blue	high-gloss	64	363 g/l	approx. 3 hours	16.3 m ² /l 40 µm	40 - 50 µm

* the variance of the values is ± 1%



RAL / Hempel colours

RAL 1000	22500	RAL 2005	50180	RAL 4005	37050	RAL 6004	41490	RAL 7006	17060	RAL 8002	67020
RAL 1001	24900	RAL 2007	57070	RAL 4006	57660	RAL 6005	47050	RAL 7008	17080	RAL 8003	67030
RAL 1002	20470	RAL 2008	57080	RAL 4007	57670	RAL 6006	47060	RAL 7009	17100	RAL 8004	61810
RAL 1003	27030	RAL 2009	57090	RAL 4008	57680	RAL 6007	47070	RAL 7010	17110	RAL 8007	67070
RAL 1004	27040	RAL 2010	57100	RAL 4009	57690	RAL 6008	47080	RAL 7011	17120	RAL 8008	67080
RAL 1005	27050	RAL 2011	57110	RAL 4010	57700	RAL 6009	47090	RAL 7012	10270	RAL 8011	67110
RAL 1006	20820	RAL 2012	57120	RAL 4012	38120	RAL 6010	40220	RAL 7013	17530	RAL 8012	67120
RAL 1007	27070	RAL 2013	59130	RAL 5000	37000	RAL 6011	40840	RAL 7015	10380	RAL 8014	67140
RAL 1011	27110	RAL 3000	50170	RAL 5001	37020	RAL 6012	47120	RAL 7016	10520	RAL 8015	67150
RAL 1012	23120	RAL 3001	57150	RAL 5002	30170	RAL 6013	41130	RAL 7021	17210	RAL 8016	60160
RAL 1013	17130	RAL 3002	50740	RAL 5003	37030	RAL 6014	47140	RAL 7022	17220	RAL 8017	67170
RAL 1014	20420	RAL 3003	51710	RAL 5004	37040	RAL 6015	47150	RAL 7023	13230	RAL 8019	60180
RAL 1015	27150	RAL 3004	50100	RAL 5005	37150	RAL 6016	47160	RAL 7024	17240	RAL 8022	67220
RAL 1016	27160	RAL 3005	51800	RAL 5007	30570	RAL 6017	42600	RAL 7026	17260	RAL 8023	67230
RAL 1017	27170	RAL 3007	57370	RAL 5008	32080	RAL 6018	42170	RAL 7030	17300	RAL 8024	67240
RAL 1018	27180	RAL 3009	53090	RAL 5009	32090	RAL 6019	49500	RAL 7031	17310	RAL 8025	67250
RAL 1019	27190	RAL 3011	57310	RAL 5010	30180	RAL 6020	47200	RAL 7032	11320	RAL 8028	67280
RAL 1020	27200	RAL 3012	57320	RAL 5011	37110	RAL 6021	47210	RAL 7033	17330	RAL 9001	20450
RAL 1021	20250	RAL 3013	57330	RAL 5012	35120	RAL 6022	47220	RAL 7034	17340	RAL 9002	17620
RAL 1023	27230	RAL 3014	57340	RAL 5013	33930	RAL 6024	47240	RAL 7035	11150	RAL 9003	17630
RAL 1024	27240	RAL 3015	57350	RAL 5014	37140	RAL 6025	47250	RAL 7036	11730	RAL 9004	17940
RAL 1026	27260	RAL 3016	57460	RAL 5015	37240	RAL 6026	47260	RAL 7037	11370	RAL 9005	19990
RAL 1027	27270	RAL 3017	57470	RAL 5017	37170	RAL 6027	47270	RAL 7038	17380	RAL 9006	19000
RAL 1028	27280	RAL 3018	57480	RAL 5018	45180	RAL 6028	47280	RAL 7039	17390	RAL 9007	19870
RAL 1032	27320	RAL 3020	57200	RAL 5019	30350	RAL 6029	47290	RAL 7040	17700	RAL 9010	10170
RAL 1033	27330	RAL 3022	57520	RAL 5020	45200	RAL 6032	47320	RAL 7042	17720	RAL 9011	17910
RAL 1034	27340	RAL 3024	57540	RAL 5021	40210	RAL 6033	47330	RAL 7043	17730	RAL 9016	17760
RAL 1035	19350	RAL 3026	50090	RAL 5022	37220	RAL 6034	47340	RAL 7044	17740	RAL 9017	17970
RAL 1037	27370	RAL 3027	57570	RAL 5023	37230	RAL 7000	10390	RAL 7045	17750	RAL 9018	17980
RAL 2000	22120	RAL 3031	57410	RAL 5024	37440	RAL 7001	10400	RAL 7046	17860	RAL 9022	19360
RAL 2001	50060	RAL 4001	37010	RAL 6000	46000	RAL 7002	17020	RAL 7047	17770	RAL 9023	19230
RAL 2002	57020	RAL 4002	57620	RAL 6001	40050	RAL 7003	17030	RAL 7048	17480		
RAL 2003	57030	RAL 4003	57630	RAL 6002	47020	RAL 7004	17160	RAL 8000	67000		
RAL 2004	50190	RAL 4004	57640	RAL 6003	47030	RAL 7005	17040	RAL 8001	67010		



As a world-leading supplier of trusted coating solutions, Hempel is a global company with strong values, working with customers in the protective, industrial, marine, decorative, container and yacht industries. Hempel factories, R&D centres 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 colourful. 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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