

Specification

PLOVPUT d.o.o.
MV SVJETIONIK

Specification

Customer 18903377 PLOVPUT d.o.o. OBALA LAZARETA 1
SPLIT
Croatia

IQS Ref. no.:	QU0000099035
Date:	12 Jan 2021
Prepared by:	Tomislav Pinteriæ
Place of Application:	Croatia
Place of Delivery:	Croatia
Delivery Port:	Croatia other ports

Project:	MV SVJETIONIK
Ref. no.:	No IMO

Abbreviations used:

d: Day(s)
h: Hour(s)
m: Minute(s)
FC: Full Coat
TU: Touch up
SC: Stripe coat
DFT: Dry film thickness
TSR: Theoretical spreading rate
RH: Relative humidity
CF: Consumption factor
LF: Loss factor
MC: Mist Coat
TBA: To be announced

Specification notes:

Always read the Labels, Safety Data Sheets, Product Data Sheets and available Application Instructions before use.

The data, specifications, directions and recommendations (hereinafter "Information") given in this painting specification are based upon test results obtained under controlled or specifically defined conditions and said Information is correct to the best of our knowledge. The User must satisfy itself that it is appropriate to use the Product in accordance with the Information in the actual conditions under which the Product is intended to be used, and the Manufacturer and Seller do not guarantee the accuracy, completeness or appropriateness of the Information when the Product is used in those conditions. The provisions regarding Hempel's liability in its applicable conditions for sale, delivery and service shall apply to any and all claims arising out of or in connection with the use of the products recommended above, overleaf or otherwise.

Specification

Project:	MV SVJETIONIK
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Area	Immersed				
Description:	PODVODNI DIO				
Size:	320 m ²	Environment	Immersed	Standard	
Substrate:	Precoated Steel				
Activity:	40%	Waters:	Medium/Warm	Average speed (knots):	8
				Service time (month):	24

Treated Area%	Product		Shade		Film Thickness (mic)		Application Method	TSR (m ² /litr)	LF%	Est vol. LTR
	Name	No.	Name	No.	Wet	Dry				
100 - FC	Hempadur 15570	15570	Grey	12430	200	100	Airless Spraying	5,40	30%	84,66
100 - FC	Hempadur Quattro 17634	17634	Venetian Red BS 445	50630	175	125	Airless Spraying	5,76	30%	79,37
100 - FC	Hempadur 47182	47182	Light khaki brown	25150	225	125	Airless Spraying	4,96	30%	92,17
100 - FC	Hempel's Antifouling Olympic+ 72900	72900	Dark brown	60600	150	90	Airless Spraying	7,00	30%	65,31
100 - FC	Hempel's Antifouling Olympic+ 72900	72900	Brownish red	51110	150	90	Airless Spraying	7,00	30%	65,31
Total DFT						530		Est. total		386,80

Overcoating Intervals

RH%	DFT (µm)	Product						
		-10°C / 14°F	0°C / 32°F	5°C / 41°F	10°C / 50°F	20°C / 68°F	30°C / 86°F	40°C / 104°F
		Min -Max	Min -Max	Min -Max	Min -Max	Min -Max	Min -Max	Min -Max
	100.0	Hempadur 15570 15570						
-		72h-Extended	36h-Extended	26h-Extended	16h-Extended	8h-Extended	6h-Extended	Not recommended
	125.0	Hempadur Quattro 17634 17634						
-		36h-90d	18h-90d	13h-90d	8h-60d	4h-30d	3h-22.5d	120m-15d
	125.0	Hempadur 47182 47182						
-		3.5d-45d	41h-22.5d	30h-16.5d	18h-10d	9h-5d	7h-4d	4.5h-60h
	90.0	Hempel's Antifouling Olympic+ 72900 72900						
-		44h-No max	22h-No max	17h-No max	11h-No max	5.5h-No max	4h-No max	3h-No max
	90.0	Hempel's Antifouling Olympic+ 72900 72900						
Undocking		58h-No max	29h-No max	22h-No max	15h-No max	7h-No max	5.5h-No max	3.5h-No max

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Substrate:	Precoated Steel						
Activity:	40%	Waters:	Medium/Warm	Average speed (knots):	8	Service time (month):	24

Surface Preparation:

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning.
- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).
- Remove dust, blast media and loose materials.
- ALTERNATIVE SURFACE PREPARATION:
- Water jetting to Wa 2½ (ISO 8501-4).
- Flash rust degree of maximum FR L (ISO 8501-4).

Remarks:

- Apply only on a clean and dry surface with a temperature that is 3°C/5°F above the dew point, to avoid condensation.
- If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness.
- Lower paint temperatures may require extra thinning, which will result in lower film build and slower drying.
- To minimise dry spray at high temperatures, extra thinning may be necessary.
- The surface must be clean before overcoating.
- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
- For further details or advice, contact your local Hempel office.

Specification

Project:	MV SVJETIONIK
Ref. no.:	No IMO

Area	Severe		
Description:	NADVODNO		
Size:	200 m ²	Environment	Severe
Substrate:	Precoated Steel	Standard	

Treated Area%	Product		Shade		Film Thickness (mic)		Application Method	TSR (m ² /ltr)	LF%	Est vol. LTR
	Name	No.	Name	No.	Wet	Dry				
20 - TU	Hempadur Quattro 17634	17634	Venetian Red BS 445	50630	225	150	Airless Spraying	4,80	30%	11,91
20 - TU	Hempadur 47182	47182	Light khaki brown	25150	175	100	Airless Spraying	6,20	30%	9,22
20 - TU	Hempatex Enamel 56360	56360	White	10000	125	40	Airless Spraying	8,00	30%	7,14
100 - FC	Hempatex Enamel 56360	56360	White	10000	125	40	Airless Spraying	8,00	30%	35,71
Total DFT						330		Est. total		63,98

Overcoating Intervals

RH%	DFT (µm)	Product						
		-10°C / 14°F	0°C / 32°F	5°C / 41°F	10°C / 50°F	20°C / 68°F	30°C / 86°F	40°C / 104°F
		Min -Max	Min -Max	Min -Max	Min -Max	Min -Max	Min -Max	Min -Max
	150.0	Hempadur Quattro 17634 17634						
-		46h-90d	23h-90d	17h-90d	11h-60d	5h-30d	4h-22.5d	2.5h-15d
	100.0	Hempadur 47182 47182						
-		62h-63d	31h-31.5d	23h-23d	14h-14d	7h-7d	5h-5.5d	3.5h-3.5d
	40.0	Hempatex Enamel 56360 56360						
-		31h-No max	15h-No max	12h-No max	8.5h-No max	4.5h-No max	3.5h-No max	2.5h-No max
	40.0	Hempatex Enamel 56360 56360						

Specification

Project:	MV SVJETIONIK
Ref. no.:	No IMO

Area	Severe		
Description:	NADVODNO		
Size:	200 m ²	Environment	Severe
Substrate:	Precoated Steel	Standard	

Surface Preparation:

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning.
- Spot abrasive blasting to min. PSa 2 (ISO 8501-2) / SP 6 (SSPC).
- Feather edges to sound surrounding coating.
- Remove dust, blast media and loose materials.
- Water jetting to min. Wa 2 (ISO 8501-4).
- Flash rust degree of maximum FR M (ISO 8501-4).
- Minor areas may be hand or power tool cleaned instead of abrasive blasting.

Remarks:

- The actual condition of the existing coating system shall be assessed before overcoating and may call for adjustment in the specification.
- Apply only on a clean and dry surface with a temperature that is 3°C/5°F above the dew point, to avoid condensation.
- Beware of ice on the surface at low temperatures.
- Do not dilute the components separately - only the mixture.
- Lower paint temperatures may require extra thinning, which will result in lower film build and slower drying.
- To minimise dry spray at high temperatures, extra thinning may be necessary.
- To check compatibility, wetting and adhesion it is recommended to make a test patch prior to the actual overcoating.
- Overlapping with epoxy on existing one-component topcoats to be kept at a minimum.
- If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness.
- The surface must be clean before overcoating.
- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
- If the maximum overcoating interval between epoxy and topcoat is exceeded, apply a (thin) additional layer of the epoxy.
- Some physical parameters, e.g. volume solids, theoretical spreading rate, VOC, specific gravity, depend on the actual shade.
- Multi-Tint colours might vary slightly from tint to tint, or from full batch productions.
- Colour stability for some shades may be affected by exposure to harsh chemical atmospheres. This does not affect the performance of the coating.

Remarks:

- HEMPATEX qualities are thermoplastic, therefore prolonged direct pressure at temperatures above 40°C/104°F may cause film indentations.
- For further details or advice, contact your local Hempel office.

Product Information Summary

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Table 1

Product		Shade		VS%	Base no.	Curing agent no.(s)	Mix ratio	Pot life hrs at 20°C
Name	No.	Name	No.					
Hempadur 15570	15570	Grey	12430	54	15579	95570	3:1	2
Hempadur Quattro 17634	17634	Venetian Red BS 445	50630	72	17636	97334	4:1	2
Hempadur 47182	47182	Light khaki brown	25150	62	47188	98470	7:1	2
Hempatex Enamel 56360	56360	White	10000	32	-	-		0
Hempel's Antifouling Olympic+ 72900	72900	Brownish red	51110	63	-	-		0
Hempel's Antifouling Olympic+ 72900	72900	Dark brown	60600	63	-	-		0

Table 2

Product		Thinner no.	Flash point °C	Dry to touch hrs at 20°C	Application restrictions	
Name	No.				Min temp °C	Max RH%
Hempadur Quattro 17634	17634	08450	27	*	-10	85
Hempadur 47182	47182	08450	28	*	-5	-
Hempatex Enamel 56360	56360	08080	41	*	-10	-
Hempadur 15570	15570	08450	25	*	-10	85
Hempel's Antifouling Olympic+ 72900	72900	08080	23	*	-10	-

* See PDS

Total estimated project volume

Product		Shade		Estimated volume LTR
Name	No.	Name	No.	
Hempel's Thinner 08080	08080	Transparent	00000	17,35
Hempel's Thinner 08450	08450	Transparent	00000	27,73
Hempadur 15570	15570	Grey	12430	84,66
Hempadur Quattro 17634	17634	Venetian Red	50630	91,27
Hempadur 47182	47182	Light khaki brown	25150	101,38
Hempatex Enamel 56360	56360	White	10000	42,86
Hempel's Antifouling Olympic+ 72900	72900	Brownish red	51110	65,31
Hempel's Antifouling Olympic+ 72900	72900	Dark brown	60600	65,31
GRAND TOTAL				495,86

For more information please contact:

Tomislav Pinteriæ

Email: TOPI@hempel.com

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 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.

Hempel d.o.o.
Novigradska 32
52470 Umag

Tel: +385 (0) 52 741777
Fax: +385 (0) 52 741352
Email: umag@hempel.com