HEMPEL
Trust is earned

System 3

Internal surface of carbon steel vessels

System 3A: Potable water tanks

Pre-qualification is not required

Product	DFT (µm)
Hempadur 35560 WRAS 35°C, NSF	300
Hempadur 35560	300
Total	**600**

Product	DFT (µm)
Hempadur 35600 WRAS 60°C	300
Hempadur 35600	300
Total	**600**

Product	DFT (µm)
Hempadur Multi-Strength 35530 WRAS 23°C, NSF	300
Hempadur Multi-Strength 35530	300
Total	**600**

WRAS 23°C = Water Regulations Advisory Scheme, UK (Approved for potable water up to 23°C/73°F).
WRAS 35°C = Water Regulations Advisory Scheme, UK (Approved for potable water up to 35°C/95°F).
WRAS 60°C = Water Regulations Advisory Scheme, UK (Approved for potable water up to 60°C/140°F).
NSF = NSF International

Note 1: Potable water requirements generally come under the regulatory guidance of the country where the facility will be installed. The above are an example of approvals these products hold but are not exhaustive. Consult your Hempel representative for further guidance.

System 3B: Ballast tanks

Pre-qualification is required[2]

Product	DFT (µm)
Shopprimer	20
Hempadur Quattro XO 17720	160
Hempadur Quattro XO 17720	160
Total	**340**

Product	DFT (µm)
Shopprimer	20
Hempadur Quattro XO 17870	160
Hempadur Quattro XO 17870	160
Total	**340**

Product	DFT (µm)
Shopprimer	20
Hempadur Quattro XO 17820	160
Hempadur Quattro XO 17820	160
Total	**340**

Product	DFT (µm)
Shopprimer	20
Hempadur BT 35750	160
Hempadur BT 35750	160
Total	**340**

Note 1: Various optional shop primers are approved - contact Hempel for details. This note applies to all of the coating systems listed in System 3B.

Note 2: Coating system 3B for ballast water tanks approved to IMO MSC.215 (82) shall be considered as qualified. This note applies to all of the above systems in System 3B, which comply to IMO resolution MSC.215 (82).

Note 3: Care should be taken to avoid excessive temperature gradients from adjacent storage areas. For temperature gradients above 15°C contact Hempel technical support. This note applies to all of the above systems in System 3B.

System 3C: Tanks for stabilised crude, diesel and condensate

Pre-qualification is not required

Product	DFT (µm)
Hempadur Quattro XO 17720[1]	160
Hempadur Quattro XO 17720[1]	160
Total	**320**

Product	DFT (µm)
Hempadur Quattro XO 17820[1]	160
Hempadur Quattro XO 17820[1]	160
Total	**320**

Product	DFT (µm)
Hempadur Quattro XO 17870[1]	160
Hempadur Quattro XO 17870[1]	160
Total	**320**

Product	DFT (µm)
Hempadur 15600[2]	160
Hempadur 15600	160
Total	**320**

Product	DFT (µm)
Hempadur 85671[3]	150
Hempadur 85671	150
Total	**300**

Product	DFT (µm)
Hempadur 85671[4]	100
Hempadur 85671	100
Hempadur 85671	100
Total	**300**

Product	DFT (µm)
Hempaline Defend 400[2]	300
Hempaline Defend 400	300
Total	**600**

Product	DFT (µm)
Hempaline Defend 630[4]	300
Hempaline Defend 630	300
Total	**600**

Note 1: Content of aromates should be less than 15%. Maximum service temperature is 40°C/104°F. Loading and offloading up to 85°C/185°F.

Note 2: Maximum service temperature is 60°C/140°F. Loading and offloading up to 85°C/185°F.

Note 3: Maximum service temperature is 60°C/140°F.

Note 4: Maximum service temperature is 90°C/140°F.

Note 5: Care should be taken to avoid excessive temperature gradients from adjacent storage areas. For temperature gradients above 15°C contact Hempel technical support. This note applies to all of the above systems in System 3C.

Note 6: Approved to IMO Resolution MSC.288 (87):2010 - Annex II test procedures for coating qualification for cargo oil tanks of crude oil tankers. This note applies to all of the coating systems listed in System 3C.

System 3D, 3E and 3F: Process vessels

Pre-qualification is not required

System 3D: Process vessels < 3 bar, < 75°C/167°F
System 3E: Process vessels < 70 bar, < 80°C/176°F
System 3F: Process vessels < 30 bar, < 130°C/266°F

Product	DFT (µm)
Hempadur 85671	100
Hempadur 85671	100
Hempadur 85671	100
Total	**300**

Product	DFT (µm)
Hempadur 85671 [2]	150
Hempadur 85671	150
Total	**300**

Product	DFT (µm)
Hempaline Defend 630	300
Hempaline Defend 630	300
Total	**600**

Note 1: Suitability is subject to confirmation of actual operating conditions. This note applies to all systems in System 3D, 3E and 3F.

Note 2: For service temperatures up to 60°C/140°F.

System 3G: Vessels for storage of methanol, MEG etc

Pre-qualification is not required

Product	DFT (µm)
Hempel's Galvosil 15700	100
Total	**100**

For advice on regional product availability and additional schemes, please contact your local Hempel representative or email protective@hempel.com

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