

SIGMAGUARD 720 TANK COATING SYSTEM

3320

a four page issue

May 2013
revision of January 2010**GENERAL DESCRIPTION**

The SIGMAGUARD 720 tank coating system is a fast drying, glossy, easy to clean tank coating, with good resistance against a wide range of chemicals including water and ballast water.

The tank coating system consists of one coat SIGMAGUARD 720 grey followed by one coat SIGMAGUARD 720 green.

The specified total minimum dry film thickness is 250 µm (for vessels which are not built under IMO resolution MSC. 288(87), locally the maximum should not exceed 600 µm.

Edges, weld seams, reverse sides of bulbs, corners and other areas not readily accessible to spray application should be stripe coated by brush with the next coat of the system to achieve the specified film thickness.

For detailed information on resistance and resistance notes, please refer to the latest issue of the Tank coating Resistance list (TRIS)

For recommended application instructions

– see working procedure –

SPECIFICATIONS FOR IN SITU BLASTED STEEL

SPECIFICATION 1	System for chemical and solvent resistance according to the latest issue of the Tank coating Resistance list (TRIS)	
Pre-treatment	steel; blast cleaned to a minimum of ISO-Sa2½ blasting profile (Rz); 40 - 70 µm	
Paint system	SIGMAGUARD 720 grey	125 µm
	SIGMAGUARD 720 green	125 µm

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SPECIFICATION 2	system for Cargo Tanks of Crude Oil tankers according to IMO resolution MSC.288(87)	
Pre-treatment	steel; blast cleaned to a minimum of ISO-Sa2½ blasting profile (R _Z); 30 - 75 µm See also detailed information in the relevant Product Data Sheet.	
Paint system	SIGMAGUARD 720 grey	160 µm
	SIGMAGUARD 720 green	160 µm
Min. and max. dft of the system	Min.dft: 320 µm applied according to 90/10 rule * Max. dft: For optimum performance, in relation to typical properties such as curing and time to first cargo, the dry film thickness of the applied coating system should not be in excess of 600 µm.	
Maintenance	See also recommendations described in the MSC.291(87) guidelines for maintenance and repair of protective coatings for cargo oil tanks of crude oil tankers.	
*90/10 rule:	90% of the recommended dft of the coating system is acceptable for up to 10% of the readings only. See also Sheet 1411.	

SPECIFICATION 3	Maintenance of minor defects	
Pre-treatment	Corroded, damaged spots and other defects should be freed from rust and any contamination by re-blasting to a minimum of ISO 8501-1 Sa2½ (preferably vacuum blasting) or disc sanding according to SPSS-Pt3. The overlapping areas around the cleaned spots should be carefully disc sanded and feather edged in order to obtain good adhesion of subsequent coats.	
Paint system	SIGMAGUARD 720 grey	125 µm
	SIGMAGUARD 720 green	125 µm
	or	
	SIGMAGUARD 795	100 µm
	SIGMAGUARD 795	100 µm

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Data for overcoating

SIGMAGUARD 720		
substrate temperature	min.	max.
5°C	32 hours	28 days
10°C	24 hours	28 days
15°C	16 hours	28 days
20°C	8 hours	28 days
30°C	4 hours	14 days
40°C	3 hours	7 days

CURING TABLE

Substrate temperature	Min. curing time of SIGMAGUARD 720 tank coating system before transport of	
	aliphatic petroleum products and ballast water and tank test with seawater	cargoes without note 4, 7, 8 or 11
5°C	10 days	17 days
10°C	7 days	14 days
15°C	5 days	8 days
20°C	3 days	5 days
30°C	2,5 days	4 days
40°C	1,5 day	3 days

- minimum curing time of SIGMAGUARD 720 tank coating system before transport of cargoes with note 4, 7, 8 or 11: 3 months
- for detailed information on resistance and resistance notes, please refer to the latest issue of the Tank coating Resistance list (TRIS)
- adequate ventilation must be maintained during application and curing (please refer to sheet 1433 and 1434)

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REFERENCES

SIGMAGUARD 720	see product data sheet 7433
SIGMAGUARD 795	see product data sheet 7455
Safe working in confined spaces	see information sheet 1433
Directives for ventilation practice	see information sheet 1434
Cleaning of steel and removal of rust	see information sheet 1490
Specification for mineral abrasives	see information sheet 1491
Recognized corrosion control coating (Lloyd's Register)	

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