

**SIGMAGUARD 750 TANKCOATING SYSTEM****3323**

a two page issue

January 2010  
revision of March 2005**GENERAL DESCRIPTION**

SigmaGuard 750 is a moisture curing, fast drying zinc silicate tankcoating, based on an organosilicate polymer and pigmented with a pure zinc powder. It ensures an excellent resistance against a wide range of aggressive organic solvents.

The cured product is inorganic in its nature and therefore does neither swell nor dissolve in solvents. Although SigmaGuard 750 has good corrosion protection against ballast water, the zinc in the coating will gradually be consumed, reducing the effective lifetime.

Some water containing cargoes can be carried provided the pH is between 5 and 9, as otherwise the zinc consumption-rate will increase considerably.

Initial coating thickness defines the lifetime of SigmaGuard 750 tankcoating. For economical and practical reasons the minimum dry film thickness (dft) on non pitted steel must be at least 60 µm. Below this thickness the lifetime will be considerably shorter.

Mudcracking will generally not occur below a dry film thickness of 150 µm. In view of these dft limits a dft of 75 µm to 100 µm is specified. This thickness can be applied by airless spray in a one coat application.

Edges, reverse sides of bulbs, weld seams and other areas not readily accessible to spray application, to be coated by brush with an extra first coat of SigmaGuard 750.

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

For recommended application instructions

– see working procedure –

**SPECIFICATIONS FOR IN SITU BLASTED STEEL**

<b>SPECIFICATION 1</b>	system for maximum chemical and solvent resistance according to the latest issue of the Tankcoating Resistance list (TRIS)	
pretreatment	steel; fully blasted in situ completely free from rust, scale, prefabrication primer and other contaminations to a minimum of ISO-Sa2½ blasting profile; (R <sub>Z</sub> ) 40 - 70 µm	
paint system	SigmaGuard 750	75-100 µm

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<b>SPECIFICATION 2</b>	maintenance of minor defects	
pretreatment	Corroded mechanically damaged spots and other defects should be freed from rust and any contamination by reblasting to a minimum of ISO-Sa2½ (preferably vacuum blasting) or grinded according to SPSS grade Pt3 after an extensive cleaning procedure.	
	Depending on type of last cargo carried the overlapping areas should be disc sanded or sweep blasted for good adhesion.	
paint system	SigmaGuard 750 spray applied	75-100 µm
	or	
	SigmaGuard 750 brush applied	25 µm
	SigmaGuard 750 brush applied	25 µm
	SigmaGuard 750 brush applied	25 µm

**CURING**

This product cures by moisture pick up from the air.  
For curing table see product data sheet no. 7551.

**VENTILATION**

Adequate ventilation must be maintained during application and curing (please refer to Information sheets 1433 and 1434)

**REFERENCES**

SigmaGuard 750	see product data sheet 7551
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)	see information sheet 1886

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