

MISCELLANEOUS SYSTEMS

3108

a four page issue

January 2010
revision of January 2007

Application areas: systems for objects and/or areas on board of ships which are not yet mentioned in our other system sheets, such as:

- Oil resisting system for below gratings, and engine room below floor level.
- Systems for void spaces, chain lockers, behind ceilings and linings.
- Clear varnish system for woodwork internal and external.
- System for galvanised steel.

Contains the following specifications:

Specification 1:	multi-purpose epoxy coating system
Specification 2:	multi-purpose epoxy coating system
Specification 3:	solvent free epoxy system for cofferdams, void spaces etc.
Specification 4:	wood oil phenolic resin clear varnish system
Specification 5:	epoxy system for galvanised steel

ACCEPTANCE OF SHOP PRIMER

The quality and nature of shop primer, will determine the performance of the coating system. The types of shop primer acceptable are those which are equivalent to SigmaWeld 165 and SigmaWeld 199 - zinc silicate and approved by PPG Protective & Marine Coatings.

Unless correctly treated, the condition of the shop primer with regard to degradation and underfilm corrosion will determine the performance of the total system.

The general condition of the weathered shop primer may vary widely throughout the structure and in many instances it is difficult to assess the severity of breakdown.

Experience shows that in practice reblasting to ISO-Sa2½ of corroded shop primed steel is the most satisfactory method of correcting corrosion defects and eliminating the detrimental effect of surface contamination.

Approved shop primers in good condition should be cleaned to remove contamination and/or zinc salts. If necessary, sweep blasting according to SPSS-Ss or mechanical cleaning according to SPSS-Pt3 should be carried out. Special attention should be taken to areas damaged by heat.

SPECIFICATION 1	multi-purpose epoxy coating system for internal spaces	
pretreatment	steel; blast cleaned to ISO-Sa2½, blasting profile (Rz) 40 - 70 µm steel with approved shop primer; sweep blasted to SPSS-Ss or power tool cleaned to SPSS-Pt3	
paint system	SigmaPrime 700	75 µm
maintenance	should preferably be carried out according to this specification	

MISCELLANEOUS SYSTEMS

3108

January 2010

SPECIFICATION 2	multi-purpose epoxy coating system for internal spaces	
pretreatment	steel; blast cleaned to ISO-Sa2½, blasting profile (R _Z) 40 - 70 µm steel with approved shop primer; sweep blasted to SPSS-Ss or power tool cleaned to SPSS-Pt3	
paint system	SigmaPrime 200	75 µm
maintenance	should preferably be carried out according to this specification	

SPECIFICATION 3	system for non immersed areas such as chain lockers, cofferdams, void spaces and behind linings cold sprayable solvent free epoxy coating resistant to dry and wet exposure conditions	
pretreatment	steel; blast cleaned to ISO-Sa2½ shop primed steel; sweep blasted to SPSS-Ss	
paint system	SigmaGuard 425 edges, weld seams, bolts etc. to be stripe coated	300 µm

SPECIFICATION 4	clear varnish system for interior and exterior use good resistance to salt water, fresh water and abrasion approved for low flame spread, see sheet 1883 (B)	
pretreatment	open grain wood; free from contamination tropical timber; to be sealed with a clear polyurethane varnish to seal off aggressive products in the wood previous clear coats; free from any contamination, surface should be sandpapered to obtain good adhesion	
paint system	Sigmarine 42 diluted 100% with Thinner 20-05 Sigmarine 42 diluted 50% with Thinner 20-05 Sigmarine 42 undiluted Sigmarine 42 undiluted (between each coat sand papering is required)	
notes	<ul style="list-style-type: none"> - oil seals (linseed etc) should not be used under Sigmarine 42, the varnish should be applied directly to the bare wood or on top of a polyurethane sealer (two component) - in general a four coat system is sufficient 	

MISCELLANEOUS SYSTEMS

3108

January 2010

SPECIFICATION 5	epoxy based system for galvanised steel exposed to marine, industrial or wet conditions (handrails, ventilation trunks, guard rails)	
pretreatment	galvanised steel and aluminium; degreasing with suitable detergent and removal of (zinc)salts by means of mechanical cleaning (e.g. by brushing with nylon brushes) followed by fresh water washing, drying and roughening up of the surface	
paint system	SigmaCover 280	50 µm
	SigmaCover 456	75 µm
	SigmaDur 550	50 µm

MAINTENANCE

Maintenance of a system is normally carried out by reblasting to ISO-Sa2½ for major areas of breakdown and recoating with the original system. Minor areas should be pretreated according to at least the minimum surface pretreatment and repaired as described in the system specifications.

MISCELLANEOUS SYSTEMS

3108

January 2010

REFERENCES

SigmaCover 280	see product data sheet 7417
SigmaCover 456	see product data sheet 7466
SigmaDur 550	see product data sheet 7537
SigmaGuard 425	see product data sheet 7953
SigmaPrime 200	see product data sheet 7416
SigmaPrime 700	see product data sheet 7930
Sigmarine 42	see product data sheet 8103
SigmaWeld 165	see product data sheet 7171
SigmaWeld 199	see product data sheet 7177
Cleaning of steel and removal of rust	see information sheet 1490
Certificates for low-flame spread	see information sheet 1883 (B)

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