PPG STEELGUARD®

Approved topcoats

INTRODUCTION

This system sheet contains a list of PPG topcoats and topcoat systems approved for the PPG STEELGUARD intumescent product range outside the scope of UL 263 & ASTM E119 certification and European CE MARK.

Refer to product specific UL263 & ASTM E119 certification and DoP documents first for UL and CE mark approved topcoats, durability categories and DFT guidance, prior to this document.

For the recommended application conditions/instructions/guidance and surface preparation please see the relevant product data sheets. For overcoating intervals of the PPG STEELGUARD product to be top coated and handling / transportation / erection please see PPG STEELGUARD – APPLICATION GUIDELINES, PPG STEELGURD 951 - APPLICATION GUIDELINES and the relevant product data sheets.

All topcoats must be PPG approved as part of the fully applied system. Non-tested topcoats should not be used. If the topcoat you require is not shown below, please contact PPG for guidance.

TOPCOATS

Selection of topcoats #		
Exposure (ISO 12944)	**Water-based Options** PPG STEELGUARD 651, 652	**Solvent-based Options** PPG STEELGUARD 550, 701, 751, 801, 802, 803 & 851
C1/C2/C3 Internal	1 x PPG STEELGUARD 2458 1 x WB acrylic 1 x SB PU 1 x WB PU 1 x SB Polyaspartic	1 x PPG STEELGUARD 2458 1 x SB acrylic 1 x SB epoxy acrylic 1 x SB PU
C4 External	N/A	2 x PPG STEELGUARD 2458 2 x SB PU

Note:

For PPG STEELGUARD 951, certification includes up to and including C5 without the use of topcoat.

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Region: Europe, Middle East & Africa

Approved topcoats #					
Topcoat system	Approved dft per coat [µm]	PPG STEELGUARD WB Options	PPG STEELGUARD SB Options	PPG STEELGUARD EP Options	Generic Type
PPG AQUACOVER ONE 645	**60**	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	WB acrylic
PPG SIGMADUR 541	60	NOT APPROVED	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB EP acrylic
PPG STEELGUARD 2458	60	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB acrylic
PPG SIGMADUR 520	60	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB PU
SIGMADUR 1800 *	60	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB PU
SIGMADUR 550H *	60	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB PU
PPG SIGMADUR 550 *	60	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB PU

*** For SIGMADUR 550, SIGMADUR 1800 & SIGMADUR 550H over thinned STEELGUARD 951, the overcoating interval is 5 days at 20˚C (68˚F)**

Region: Asia Pacific

Approved topcoats #					
Topcoat system	Approved dft per coat [µm]	PPG STEELGUARD WB Options	PPG STEELGUARD SB Options	PPG STEELGUARD EP Options	Generic Type
PPG SIGMADUR 520	60	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB PU
PPG PSX 500	50	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB PSX
PPG SIGMADUR 550 *	60	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB PU

*** For SIGMADUR 550 over thinned STEELGUARD 951, the overcoating interval is 5 days at 20˚C (68˚F)**

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Region: United States & Canada

Approved topcoats #				
Topcoat system	Approved dft per coat [µm]	PPG STEELGUARD WB Options	PPG STEELGUARD EP Options	Generic Type
PPG SIGMADUR 550 /PITTHANE ULTRA*	60	C1 / C2 / C3 Internal	C1/C2/C3/C4/C5	SB PU
PITT-TECH 90-812	50	C1 / C2 / C3 Internal	C1/C2/C3/C4/C5	WB acrylic
PITT-TECH EDF	50	C1 / C2 / C3 Internal	NOT APPROVED	WB acrylic
PPG AMERCOAT 450H	50	C1 / C2 / C3 Internal	C1/C2/C3/C4/C5	SB PU
PPG AMERSHIELD VOC	75	C1 / C2 / C3 Internal	C1/C2/C3/C4/C5	Acrylic PU
SPEEDHIDE 6-SERIES	35	C1 / C2 / C3 Internal	NOT APPROVED	WB acrylic
DURETHANE DTM	75	C1 / C2 / C3 Internal	NOT APPROVED	SB PU
SIL-SHIELD LV VOC	35	C1 / C2 / C3 Internal	NOT APPROVED	Silicone alkyd

*** For SIGMADUR 550 / PITTHANE ULTRA over thinned STEELGUARD 951, the overcoating interval is 5 days at 20˚C (68˚F)**

Region: Latin America

Approved topcoats #					
Topcoat system	Approved dft per coat [µm]	PPG STEELGUARD WB Options	PPG STEELGUARD SB Options	PPG STEELGUARD EP Options	Generic Type
PPG SIGMADUR 520	60	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB PU
PPG SIGMADUR 550 *	60	C1 / C2 / C3 Internal	C1/C2/C3/C4	C1/C2/C3/C4/C5	SB PU

*** For SIGMADUR 550 over thinned STEELGUARD 951, the overcoating interval is 5 days at 20˚C (68˚F)**

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Notes

1. As a general rule the DFT of the topcoat or topcoat system should not exceed the DFT approved by more than 50%, please consult the Product Data Sheet or PPG for additional details. DFT's significantly lower than those stated in the tables below will affect the performance of the coating system adversely.
2. Before the application of the topcoat or topcoat system the following conditions shall be met:
   - The PPG STEELGUARD intumescent coating shall be applied in accordance with the Product Data Sheet
   - The PPG STEELGUARD intumescent coating shall be within its stated overcoating period.
   - The PPG STEELGUARD intumescent coating shall be intact and free from damage and degradation.
   - The PPG STEELGUARD intumescent coating shall be clean and free from any contamination.
3. Where offsite application of the topcoat or topcoat system is carried out, sufficient drying time must be allowed prior to handling, transportation and erection to minimize damage. For single pack PPG STEELGUARD intumescent coatings, drying times will increase significantly with higher applied DFTs and be dependent on application and drying conditions and the section type. The generic type of topcoat will also influence dry-to-handle times.
4. Where fast track processing is required with topcoats on high DFT single pack PPG STEELGUARD intumescent coatings and/or onvulnerable sections, please contact PPG.
5. Tables above refer to solid colors only.
6. If the topcoat or topcoat system you are looking for is not included, please contact PPG.
7. SB= solvent-based; WB= water-based, EP= Epoxy-based, PU= Polyurethane; PA= Polyaspartic; PSX= Polysiloxane; DFT= Dry Film Thickness

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