



## Защитни/индустириални покрития – Системи ISO12944:5

# Защитни покрития – системи

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# ISO 12944-5: При атмосферни условия (Ново строителство/ Безвъздушно полагане)

System number	Durability	Primer	Buildcoat	Topcoat	Total
C2.03	High	PPG SIGMAFAST 20 (80)		PPG SIGMAFAST 40 (80)	160
C2.03	High	PPG AQUACOVER One 625 (80)		PPG AQUACOVER ONE 645 (80)	160
C2.05	High	PPG SIGMAFAST 210HS (100)			100
C2.05	High	PPG SIGMAFAST 205 (120)			120
C2.05	High	PPG SIGMAFAST 278 (120)			120
C3.06	High	PPG SIGMAFAST 210HS (100)			100*
C3.06	High	PPG SIGMAFAST 205 (120)		PPG SIGMAFAST 210HS (60)	180
C3.06	High	PPG SIGMAFAST 278 (130)		PPG SIGMAFAST 210HS (50)	180
C3.06	High	PPG SIGMAFAST 278 (90)		PPG SIGMAFAST 278 (90)	180
C4.06	High	PPG SIGMAFAST 210HS (150)			150*
C4.06	High	PPG SIGMAZINC 105 (50)		PPG SIGMAFAST 210HS (75)	125*
C4.06	High	PPG SIGMAFAST 278 (190)		PPG SIGMAFAST 210HS (50)	240
C4.06	High	PPG SIGMAFAST 278 (120)		PPG SIGMAFAST 278 (120)	240
C4.10	High	PPG SIGMAZINC 68GP (50)		PPG PSX700 (100)	150*

# ISO 12944-5: Атмосферни условия

## (Ново строителство/ Безвъздушно полагане)

System number	Durability	Primer	Buildcoat	Topcoat	Total
C5.03	High	PPG SIGMAFAST 278 (200)		PPG SIGMAFAST 210HS (100)	300
C5.03	High	PPG SIGMAZINC 105 (60)	PPG SIGMAFAST 278 (180)	PPG SIGMAFAST 210HS (60)	300
C5.03	High	PPG SIGMAFAST 278 (125)	PPG SIGMAFAST 278 (125)	PPG SIGMAFAST 210HS (50)	300
C5.07	High	PPG SIGMAZINC 68GP (50)	PPG SIGMAFAST 278 (160)	PPG SIGMAFAST 210HS (50)	260
C5.07	High	PPG DIMETCOTE 9 (60)	PPG SIGMAFAST 278 (150)	PPG SIGMAFAST 210HS (50)	260
C5.07	High	PPG SIGMAZINC 68GP (75)		PPG PSX700 (125)	200*
G5.04 (HDG)	High	PPG SIGMAFAST 278 (150)		PPG SIGMAFAST 210HS (50)	200
TSM 5.01	High	PPG SIGMAFAST 278 (150)		PPG SIGMAFAST 210HS (50)	200
C5.08	Very high	PPG SIGMAZINC 68GP (50)	PPG SIGMAFAST 278 (220)	PPG SIGMAFAST 210HS (50)	320
C5.08	Very High	PPG DIMETCOTE 9 (50)	PPG SIGMAFAST 278 (220)	PPG SIGMAFAST 210HS (50)	320
G5.05 (HDG)	Very High	PPG SIGMAFAST 278 (190)		PPG SIGMAFAST 210HS (50)	240
TSM 5.02	Very High	PPG SIGMAFAST 278 (190)		PPG SIGMAFAST 210HS (50)	240
TSM 5.02	Very High	PPG SIGMACOVER 280 (25)	PPG SIGMAFAST 278 (165)	PPG SIGMAFAST 210HS (50)	240
CX	High	PPG SIGMAZINC 68GP (60)	PPG SIGMAFAST 278 (170)	PPG SIGMADUR 550 (50)	280
CX	High	PPG DIMETCOTE 9 (60)	PPG SIGMAFAST 278 (170)	PPG SIGMADUR 550 (50)	280

# ISO 12944-5: Атмосферни условия (Поддръжка и репарации)

ISO8501 Sa2.5, Sa2, St2/3 SSPC WJ -2 (L)/ WAB – 6(L)/ SP-11

System number	Durability	Primer	Buildcoat	Topcoat	Total
C3.06	High	PPG SIGMACOVER 350 ALU (100)		PPG SIGMAFAST 210HS (80)	180
C4.06	High	PPG SIGMACOVER 350 ALU (80)	PPG SIGMACOVER 350 (80)	PPG SIGMAFAST 210HS (50)	210*
C4.06	High	PPG SIGMACOVER 350 ALU (90)	PPG SIGMACOVER 456 (90)	PPG SIGMAFAST 210HS (60)	240
C5.03	High	PPG SIGMACOVER 350 ALU (125)	PPG SIGMACOVER 350 (125)	PPG SIGMAFAST 210HS (50)	300
C5.03	High	PPG SIGMACOVER 350 ALU (130)	PPG SIGMACOVER 456 (120)	PPG SIGMAFAST 210HS (50)	300
C5.03	High	PPG SIGMASHIELD 880 (150)		PPG SIGMASHIELD 880 (150)	300
C5.03	High	PPG SIGMASHIELD 880 ALU (150)		PPG SIGMASHIELD 880 (150)	300
C5.03	High	PPG SIGMACOVER 280 (50)	PPG SIGMASHIELD 880 (200)	PPG SIGMAFAST 210HS (50)	300
C5.03	High	PPG SIGMASHIELD 400 (150)		PPG SIGMASHIELD 400 (150)	300

# ISO 12944-5 Im2/ Im3: Потопена среда

## Ново строителство и поддръжка

System number	Durability	Primer	Buildcoat	Topcoat	Total
I.05	High	PPG SIGMASHIELD 880 (400)			400
I.05	High	PPG SIGMASHIELD 880 (200)		PPG SIGMASHIELD 880 (200)	400
I.05	High	PPG SIGMACOVER 280 (80)		PPG SIGMASHIELD 880 (300)	380
I.06	Very High	PPG SIGMASHIELD 880 (600)			600
I.06	Very High	PPG SIGMASHIELD 880 (300)		PPG SIGMASHIELD 880 (300)	600
I.06	Very High	PPG SIGMACOVER 280 (100)		PPG SIGMASHIELD 880 (440)	540
I.06	Very High	PPG SIGMASHIELD 1200 (600)			600

### Cleanliness

PPG SIGMACOVER 280/ PPG SIGMASHIELD 880	ISO8501 SSPC	Sa2.5 WJ -2 (L)/ WAB – 6(L)/ SP-11
PPG SIGMASHIELD 1200	ISO8501	Sa2.5

# Финишни покрития

Topcoat	Gloss level	Volume solids (%)	DFT range (microns)	Direct to metal	PPG Accelerator 866	Technology
SIGMAFAST 210HS	Semi-gloss	67	50 -150	Yes	Yes	Polyurethane
SIGMADUR 550	Gloss	55	50 – 60	No	No	Polyurethane
SIGMADUR 550H*	Gloss	70	50 – 150	Yes	No	Polyurethane
SIGMADUR 1800	Gloss	68	75	No	No	Polyurethane
SIGMADUR 541	Gloss	57	50 - 60	No	No	Non-isocyanate epoxy acrylic
PSX700	High gloss	90	75 – 175	Yes	No	Polysiloxane
PSX700 CLEARCOAT	Gloss	78	20 – 25	No	No	Polysiloxane

# Системи за корозия под изолация

CUI -196°C up to 204°C			
Primer	Buildcoat	Topcoat	Total
PPG SIGMASHIELD 400 (250)			250
PPG SIGMATHERM 230 (125)		PPG SIGMATHERM 230 (125)	250*

\* Only if phenolic epoxy is specified

CUI -196°C up to 650°C (cyclic up to 540°C)			
Primer	Buildcoat	Topcoat	Total
PPG HI-TEMP 1027HD (250)			250
PPG DIMETCOTE 9 (50)		PPG HI-TEMP 1027 (200)	250
PPG DIMETCOTE 9 (65)		PPG HI-TEMP 1027HD (200)	265**

\*\* ISO19277 CUI-3 certified

CUI 200°C up to 650°C (cyclic up to 540°C)			
Primer	Buildcoat	Topcoat	Total
PPG HI-TEMP 1027 (250)			250



# Високи температури – без изолация

-196°C up to 204°C

Primer	Buildcoat	Topcoat	Total
PPG SIGMASHIELD 400 (250)		PPG SIGMATHERM 350 (2X 25) - OPTIONAL	250
PPG SIGMATHERM 230 (125)	PPG SIGMATHERM 230 (125)	PPG SIGMATHERM 350 (2X 25) - OPTIONAL	250*

\* Only if phenolic epoxy is specified

-196°C up to 350°C

Primer	Buildcoat	Topcoat	Total
PPG DIMETCOTE 9 (60 MICRONS)		PPG SIGMATHERM 350 (2X 25)	110
PPG SIGMAZINC 158 (60 MICRONS)		PPG SIGMATHERM 350 (2X 25)	110

200°C up to 350°C

Primer	Buildcoat	Topcoat	Total
PPG SIGMATHERM 350 (2X 25)			50

-196°C up to 540°C

Primer	Buildcoat	Topcoat	Total
PPG DIMETCOTE 9 (60 MICRONS)		PPG SIGMATHERM 540 (2X 25)	110
PPG SIGMAZINC 158 (60 MICRONS)		PPG SIGMATHERM 540 (2X 25)	110

# Целулозна огнезащита грундове/ финишни покрития

## Информационен лис 1224 – Одобрени грундове за C-PFP

To be used primers		
PPG SIGMAFAST 205(LT)	PPG FONTECRYL SC EF 50	PPG SIGMACOVER 256
PPG SIGMAFAST 20	PPG SIGMACOVER 350	PPG SIGMACOVER 280
PPG SIGMAZINC 68GP	PPG SIGMAFAST 210HS	

## Информационен лист 1226 – Одобрени финишни покрития C-PFP

To be used topcoats		
PPG SIGMADUR 550	PPG SIGMAFAST 210HS	PPG STEELGUARD 2458
PPG FONTECRYL SC EF 50	PPG FONTECRYL SC EF 50	

C-PFP Продукти:	Органични	PPG STEELGUARD 701/801/802/751/851
	Водни	PPG STEELGUARD 651
	Епоксидни	PPG STEELGUARD 951

# Въглеродородна огнезащита грундове/ финишни покрития

Одобрени грундове H-PFP

To be used primers		
PPG SIGMACOVER 280	PPG SIGMACOVER 350	PPG SIGMAZINC 68 GP
PPG SIGMACOVER 256	PPG DIMETCOTE 9/ SIGMACOVER 280	

Одобрени финишни покрития H-PFP

To be used topcoats		
SIGMADUR 550	SIGMADUR 1800	SIGMAFAST 210HS
PSX700	SIGMADUR 541	

H-PFP продукт: PPG PITT-CHAR NX

# Химическа защита и резервоари

## Стандартна употреба

Solvent based lining	Typical usage
PPG NOVAGUARD 260	Holding primer solvent free tanklinings
PPG SIGMAGUARD 720	Refined products
PPG PHENGUARD 985	Methanol, ethanol, biofuels, animal fat, UCO, FAME, Water up to 100°C
PPG PHENGUARD 965	Low temperature curing, methanol, ethanol, biofuels, animal fat, UCO, FAME
PPG DIMETCOTE 9	Refined products, methanol, ethanol
Solvent free linings	Typical usage
PPG SIGMAGUARD CSF585	Potable water
PPG NOVAGUARD 650/ 615	Crude oil, refined products
PPG NOVAGUARD 840	Wastewater, crude oil high temperatures
PPG NOVAGUARD 890	Ethanol, biodiesel, crude oil, FAME (Note 3)