



Industrial coating
Anti-corrosion coating
very high solid, VOC approx. 145 g/l

Basis Polyaspartic (polyaspartic ester and aliphatic isocyanate)

	R 24404.1		A	B	C
Component A	Desmophen NH 1520	(1)	15.4	15.4	17.8
	Desmophen VP LS 2142)*		4.8	4.8	5.6
	UOP L-powder	(2)	2.1	2.1	2.4
	Methoxy propyl acetate / Solvesso 100 (1:1)		8.8	8.8	10.2
	Byk-085	(3)	0.7	0.7	0.8
	Disperbyk-110	(3)	0.6	0.6	---
	Tinuvin 292	(4)	0.4	0.4	0.5
	Sachtleben R-KB-4	(5)	11.0	11.0	12.8
	Heucophos ZPA	(6)	11.0	11.0	12.8
	SILLITIN V 85	(7)	27.4	---	---
	SILLITIN Z 86	(7)	---	27.4	---
	AKTISIL PF 777	(7)	---	---	16.5
Component B	Desmodur ultra N 3600	(1)	17.8	17.8	20.6
	Total % by weight		100.0	100.0	100.0

)* Desmophen VP LS 2142 is no longer available
 Recommended: CSTICOPhen VPLS 2142 (3)

Recommendation Formulation A with SILLITIN V 85: for strong ionic exposure on blasted or non-blasted steel, glossy coating

Formulation B with SILLITIN Z 86: for strong ionic exposure on blasted or non-blasted steel, matte coating

Formulation C with AKTISIL PF 777: for intense humid environment particularly on non-blasted steel

Mixing The preparation of component A was realized by dissolver with adapted bead mill after predispersion by grinding (20 min, 8 m/s).

Application Spraying by air pressure, single-layered with a dry film thickness of 120 µm



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Technical Data	Solids content (m/m)	%	91	91	90	
	PVC	%	30	30	23	
	VOC	g/l	141	141	148	
Properties	Fineness of grind	µm	< 10	< 10	< 10	
	Sedimentation comp. A. 28 d / 50°C		no	no	no	
	Dynamic viscosity A+B 0.1 s ⁻¹ , 23°C	Pa·s	1.9	13.9	39.3	
	Dynamic viscosity A+B 1000 s ⁻¹ , 23°C	Pa·s	0.68	0.86	0.37	
	Pot life (Brookfield, spindle 6, 20 rpm)	initial viscosity	Pa·s	0.8	1.2	2.4
		after 5 h	Pa·s	4.1	12	3.1
	Drying (DIN 53150, stage T4)	h	5-6	5-6	5-6	
	Gloss 60°		90	11	14	
	Color (D65 / d8 / 10°)	L*	92.9	92.4	93.7	
		a*	-0.1	0.2	-0.2	
		b*	7.3	9.0	6.6	
	Hiding power: dry film thickness for contrast ratio = 98%	µm	---	86	93	
	Pendulum hardness after 168 h	s	134	119	119	
	Cross-cut test (3 mm after tape tear-off)		1	1	0	
	Abrasion loss	mg	152	176	---	

Cold-rolled steel, Sa 2½, blasted medium (G) according to ISO 8503-1

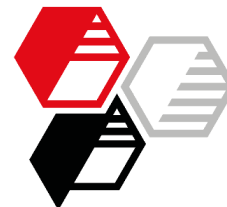
Salt spray test DIN EN ISO 9227 NSS, 1000 h

Rating according to DIN EN ISO 4628 part 2-5 and 8

Degree of blistering		0	0	---
Degree of rusting		0	0	---
Degree of cracking		0	0	---
Degree of flaking		0	0	---
Degree of corrosion around a scribe	mm	1.8	1.8	---
Degree of delamination around a scribe	mm	7	6	---
Cross-cut test (3 mm after tape tear-off)		1	1	---



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Humidity test DIN EN ISO 6270-2 CH, 1000 h				
Rating according to DIN EN ISO 4628 part 2-5 and 8				
Degree of blistering		0	0	---
Degree of rusting		0	0	---
Degree of cracking		0	0	---
Degree of flaking		0	0	---
Degree of corrosion around a scribe	mm	0.2	0.5	---
Degree of delamination around a scribe	mm	3.5	4.3	---
Cross-cut test (3 mm after tape tear-off)		1	0-1	---
 Cold-rolled steel, non-blasted, Q-Panel R 48				
Salt spray test DIN EN ISO 9227 NSS, 480 h				
Rating according to DIN EN ISO 4628 part 2-5 and 8				
Degree of blistering		---	---	0
Degree of rusting		---	---	0
Degree of cracking		---	---	0
Degree of flaking		---	---	0
Degree of corrosion around a scribe	mm	---	---	3.5
Degree of delamination around a scribe	mm	---	---	13
Cross-cut test (3 mm after tape tear-off)		---	---	0-1
 Humidity test DIN EN ISO 6270-2 CH, 480 h				
Rating according to DIN EN ISO 4628 part 2-5 and 8				
Degree of blistering		---	---	0
Degree of rusting		---	---	0
Degree of cracking		---	---	0
Degree of flaking		---	---	0
Degree of corrosion around a scribe	mm	---	---	0.3
Degree of delamination around a scribe	mm	---	---	7
Cross-cut test (3 mm after tape tear-off)		---	---	2



R 24404.1

A

B

C

Suppliers

- (1) Covestro
- (2) UOP
- (3) Byk Chemie
- (4) BASF
- (5) Venator Materials Corporation
- (6) Heubach
- (7) HOFFMANN MINERAL
- (8) CSC Jäcklechemie

More information on this topic

[Neuburg Siliceous Earth in 2C-Polyaspartic Coatings for Corrosions Protection](#)

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