

**Good hiding facade paint, water-based, matte
highly wet-scrub resistant, highly water repellent
improving opacity, reducing titanium dioxide**

Basis Styrene acrylate

		Control	+ 40 pbw SILFIT Z 91	+ 60 pbw SILFIT Z 91	+ 60 pbw SILFIT Z 91 -10 % TiO ₂	+ 98 pbw SILFIT Z 91 -20 % TiO ₂
	F 10401.1	[80]	[20]	[21]	[69]	[67]
Component A	Demineralized water	180	180	180	180	180
	Natrosol 250 HR (1)	2	2	2	2	2
	Ammonia 25 %	2	2	2	2	2
	Dispex AA 4030 (2)	2	2	2	2	2
	Calgon N neu, 10 % in water (3)	3	3	3	3	3
	Parmetol MBX (4)	2	2	2	2	2
	Foamaster MO 2134 (2)	2	2	2	2	2
	Propylene glycol : Butyl diglycol : Texanol (1 : 1 : 1)	30	30	30	30	30
Component B	Kronos 2190 (5)	190	190	190	171	152
	Omyacarb 5 GU (6)	220	220	220	220	220
	Finntalc M15 (7)	50	50	50	50	50
	SILFIT Z 91 (8)	---	40	60	60	98
Component C	Acronal S 790 (2)	320	320	320	320	320
	Foamaster MO 2134 (2)	3	3	3	3	3
	Acticide MKB 3 (9)	10	10	10	10	10
	Rheovis PE 1330 (2)	12	12	12	12	12
	Demineralized water	12	12	12	12	12
Total parts by weight		1040	1080	1100	1081	1100

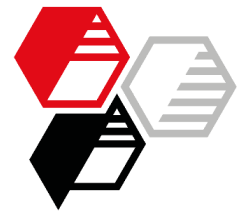
Recommendation

- [20] good opacity and high brightness
- [21] best opacity
- [69] balanced property profile, titanium dioxide savings
- [67] high cost reduction potential, titanium dioxide savings

all formulations with EU Ecolabel compliant spreading rate

Mixing

- component A: charge water and add Natrosol, let swell approx. 30 min while stirring
- add remaining ingredients of component A and stir for another 5 min
- premix and add component B, disperse by dissolver under cooling with water
- complete by component C and stir for another 5 min



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Technical Data	Solids content w/w	%	61.0	62.5	63.1	62.5	63.2
	Titanium dioxide content w/w	%	18.3	17.6	17.3	15.8	13.8
	PVC	%	49.6	52.1	53.3	52.6	54.2
	Dynamic viscosity, 23 °C						
	at 0.1 s ⁻¹	Pa·s	n.d.	51.7	62.1	43.1	45.4
	at 1000 s ⁻¹	Pa·s	n.d.	0.32	0.34	0.31	0.31
	Storage stability 6 months, 23 °C		very good	very good	very good	very good	very good
Eigenschaften	Color d/8°, DIN 5033-1						
	L*		96.3	96.1	96.0	95.9	95.6
	a*		-0.5	-0.5	-0.5	-0.5	-0.5
	b*		2.5	2.5	2.5	2.5	2.5
	Hiding power, ISO 6504-3						
	Spreading rate at contrast ratio 98 %	m ² /l	6.5	6.9	7.3	6.9	7.0
	Wet-scrub resistance, ISO 11998						
	Abrasion loss after 200 cycles	µm	2.5	2.7	2.6	2.6	2.7
	<i>determined on samples applied by a doctor blade</i>						
	<u>Classification along with DIN EN 1062-1</u>						
Degree of gloss, ISO 2813		G3 matte	G3 matte	G3 matte	G3 matte	G3 matte	
Gloss 85°	GU	3.9	3.3	3.2	3.3	3.2	
Water vapor permeability							
Class		n.d.	V2 medium	V2 medium	V2 medium	V2 medium	
Water vapor transmission rate	g/(m ² *d)	n.d.	20.9	21.1	20.0	20.1	
Diffusion equivalent air layer thickness	m	n.d.	0.98	0.97	1.02	1.01	
<i>wet cup method, DIN EN ISO 7783, 400 ml/m², applied in two layers</i>							
Liquid water permeability							
Class		n.d.	W3 low	W3 low	W3 low	W3 low	
Water absorption coefficient	kg/(m ² *h ^{0.5})	n.d.	0.022	0.023	0.023	0.025	
<i>DIN EN 1062-3, 400 ml/m², applied in two layers</i>							



F 10401.1

Suppliers

- (1) Ashland
- (2) BASF
- (3) BK Giulini
- (4) Vink Chemicals
- (5) Kronos International
- (6) Omya
- (7) Elementis
- (8) HOFFMANN MINERAL
- (9) Thor

More information on this topic:

[Silfit Z 91 vs. Precipitated Sodium Aluminium Silicate](#)

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