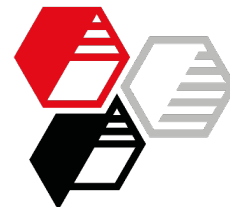
**Industrial coating****Anti-corrosion coating, water-based, white single-layer system, direct-to-metal (DTM)****Basis** Acrylate

		SILLITIN Z 89	AKTIFIT Q
	L 00012.1	[52]	[56]
Pigment preparation	-- part 1 --		
	Demineralized water	5.90	5.90
	Edaplan 490 (1)	1.20	1.20
	AMP-90 (2)	0.02	0.02
	Byk-024 (3)	0.10	0.10
	Byk-349 (3)	0.18	0.18
	-- part 2 --		
	Kronos 2190 (4)	17.70	17.70
	SILLITIN Z 89 (5)	7.50	---
	AKTIFIT Q (5)	---	7.50
Let down	-- part 3 --		
	Demineralized water	2.90	2.90
	-- part 4 --		
	Alberdingk AC 2403 (6)	57.90	57.90
	-- part 5 --		
	Byk-024 (3)	0.15	0.15
	-- part 6 --		
	Asconium-142DA (7)	1.90	1.90
	AMP-90 (2)	0.15	0.15
	Demineralized water	1.90	1.90
	-- part 7 --		
	Optifilm Enhancer 300 (8)	1.50	1.50
	Ascotran-H10 (7)	0.50	0.50
	Tafigel PUR 60 solution)*	0.50	0.50
	Total % by weight	100.00	100.00

)* Tafigel PUR 60 solution:

Tafigel PUR 60	10.0
Dipropylene glycol monomethyl ether (DPM)	20.0
Demineralized water	70.0

**Recommendation** SILLITIN Z 89 and AKTIFIT Q

- improvement of the adhesion after humidity test and salt spray test
- avoidance of under-film corrosion in the humidity test

SILLITIN Z 89

- reduced blistering at scribe in the salt spray test
- less delamination and rust creep at scribe

AKTIFIT Q

- avoidance of blistering at scribe in the salt spray test
- lowest delamination and rust creep at scribe

Mixing**Pigment preparation**

- mix raw materials from part 1
- premix raw materials from part 2 and add to part 1
- disperse with high shear for 10 min under cooling
- complete with part 3

Let down

- charge Alberdingk AC 2403 and add pigment preparation while stirring
- add part 5
- premix part 6 and add the clear solution to the batch (if cloudy: discard)
- complete with part 7

Application

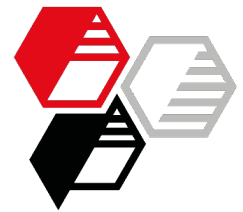
- after 35 d maturing time
- substrate: cold-rolled steel, Q-Panel type R-48
- spraying: diluted with 10 % water, nozzle 3 mm
- dry film thickness: approx. 70 µm, single-layer


Conditioning

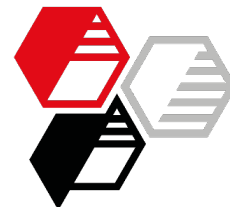
- drying conditions: 23 °C / 50 % relative humidity
- appearance and adhesion: 7d
- corrosion tests: 28 d







Suppliers

- (1) Münzing Chemie
- (2) Advancion
- (3) Byk Chemie
- (4) Kronos International
- (5) HOFFMANN MINERAL
- (6) Alberdingk Boley
- (7) Ascotec
- (8) Eastman Chemical Company



		Control with calcium carbonate	SILLITIN Z 89	AKTIFIT Q	
	L 00012.1		[52]	[56]	
Technical Data	Solids content (w/w)	%	all: 56		
	PVC	%	all: 21		
Properties	Dynamic viscosity @ 23 °C, 35 d				
	0.1 s ⁻¹	Pa·s	12.6	10.1	9.9
	100 s ⁻¹	Pa·s	0.335	0.285	0.346
	Color d/8° L*		97.0	96.4	96.7
	Color d/8° a*		-1.1	-1.0	-1.1
	Color d/8° b*		2.3	2.9	2.0
	Gloss 60°	GU	68	52	47
	Cross-cut test 2 mm, after tape tear-off			all: 0	
	Humidity test DIN EN ISO 6270-2 CH, 1000 h				
	Cross-cut test 2 mm, after tape tear-off		1-2	0-1	0-1
Degree of blistering DIN EN ISO 4628-2			all: 0 (S0)		
Under-film corrosion, stripped					



	Control with calcium carbonate	SILLITIN Z 89 [52]	AKTIFIT Q [56]
L 00012.1			
Salt spray test DIN EN ISO 9227 NSS, 1000 h			
Cross-cut test 2 mm, after tape tear-off	0-1	0	0
Degree of blistering DIN EN ISO 4628-2		all: 0 (S0)	
Under-film corrosion, stripped		all: no corrosion	
Blistering at scribe			
			
Delamination and rust creep at scribe			
			
Delamination	mm 26.3	17.9	4.8
Rust creep	mm 1.4	0.7	0.6

More information on this topic:

[DTM - Neuburg Siliceous Earth in Water-based Corrosion Protection - Acrylate Single-layer White](#)

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