



Industrial coating

Anti-corrosion primer, water-based, red

good wet adhesion, for economic use

Basis Styrene acrylate dispersion

L 00014.2 [3]

Pigment preparation			
	-- part 1 --		
	Demineralized water		15.00
	Edaplan 490	(1)	0.80
	Byk-024	(2)	0.10
	Butyl glycol		3.00
	-- part 2 --		
	Bayferrox 130 M	(3)	8.90
	AKTIFIT PF 115	(4)	13.50
	Heucophos ZPO	(5)	7.00
	Heucorin RZ	(5)	1.00
	-- part 3 --		
Let down	Alberdingk SC 48	(6)	39.70
	Demineralized water		2.90
	-- part 4 --		
	Optifilm Enhancer 300	(7)	1.00
	Byk-024	(2)	0.40
	Byk-349	(2)	0.10
	Ascotran-H10	(8)	0.50
	Ammonia 25 %		0.80
	Resydrol AX 237 W/70 BG	(9)	4.00
	Borchi OXY-Coat 1101	(10)	0.10
	Tafigel PUR 41	(1)	1.20
	Total % by weight		100.00

Recommendation

AKTIFIT PF 115

- stable viscosity level
- improved wet adhesion
- resistance to blistering and corrosion in non-scribed surface area
- strongly inhibited corrosion progress 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

Let down

- charge Alberdingk SC 48 and dilute with water
- add pigment preparation while stirring
- complete step by step with raw materials of part 4

Application

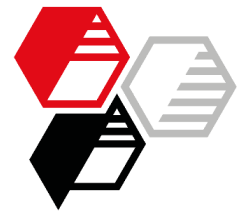
- substrate: cold-rolled steel
- dual-layer coating, dry film thickness (DFT) 150 µm in total
- single-layer coating, DFT 80 µm
- drying 28 d

Technical Data

Solids content (w/w)	56 %
PVC	31 %

Suppliers

- (1) Münzing Chemie
- (2) Byk Chemie
- (3) Lanxess
- (4) HOFFMANN MINERAL
- (5) Heubach
- (6) Alberdingk Boley
- (7) Eastman Chemical Company
- (8) Ascotec
- (9) Allnex
- (10) Borchers



Control with
calcium carbonate
and talc

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Properties

Dynamic viscosity @ 23 °C			
10 s ⁻¹ , 1 d	Pa·s	1.13	0.74
10 s ⁻¹ , 28 d	Pa·s	1.59	0.75
1000 s ⁻¹ , 1 d	Pa·s	0.30	0.24
1000 s ⁻¹ , 28 d	Pa·s	0.40	0.25

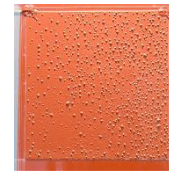
Cross-cut test 2 mm, after tape tear-off 0 0

Humidity test DIN EN ISO 6270-2 CH

Rating according to DIN EN ISO 4628 part 2-5

Dual-layer coating, DFT 150 µm

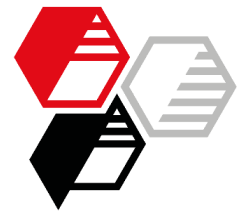
Cross-cut test 2 mm		3	0
after 1 h regeneration time and tape tear-off			
Degree of rusting / cracking / flaking	480 h	0	0
Degree of blistering	480 h	4-5 (S3)	0 (S0)



Under-film corrosion

stripped





Control with
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and talc

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Salt spray test DIN EN ISO 9227 NSS

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

Dual-layer coating, DFT 150 µm

Cross-cut test 2 mm

2mm, 1 h regeneration time, tape tear-off

Degree of rusting / cracking / flaking

Degree of blistering

Degree of delamination around a scribe

Degree of blistering / corrosion around a scribe

480 h	480 h	480 h	480 h
4-5	0	4 (S4)	0 (S0)
0	0	0	0
0	0	0	0
240 h	480 h		



stripped



Single-layer coating, DFT 80 µm

120 h

120 h



More information on this topic:

[Neuburg Siliceous Earth in Water-based Corrosion Protection - Acrylate Primer Red](#)

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