

**Industrial coating****Anti-corrosion primer, water-based, red**

good wet adhesion, for economic use

Basis Styrene acrylate dispersion

L 00014.2 [3]

Pigment preparation	<i>-- part 1 --</i>	
	Demineralized water	15.00
	Edaplan 490 (1)	0.80
	Byk-024 (2)	0.10
	Butyl glycol	3.00
	<i>-- part 2 --</i>	
	Bayferrox 130 M (3)	8.90
	AKTIFIT PF 115 (4)	13.50
	Heucophos ZPO (5)	7.00
	Heucorin RZ (5)	1.00
Let down	<i>-- part 3 --</i>	
	Alberdingk SC 48 (6)	39.70
	Demineralized water	2.90
	<i>-- part 4 --</i>	
	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



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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

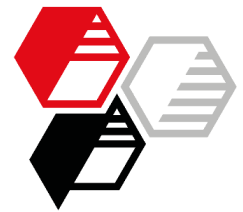
- substrate: cold-rolled steel
- dual-layer coating, dry film thickness (DFT) 150 µm in total
- single-layer coating, DFT 80 µm
- drying 28 d

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
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Humidity test DIN EN ISO 6270-2 CH

Rating according to DIN EN ISO 4628 part 2-5

Dual-layer coating, DFT 150 µm

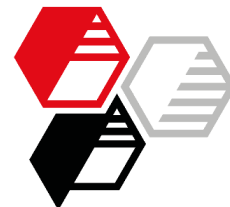
Cross-cut test 2 mm		3	0
after 1 h regeneration time and tape tear-off			
Degree of rusting / cracking / flaking	480 h	0	0
Degree of blistering	480 h	4-5 (S3)	0 (S0)



Under-film corrosion

stripped





Control with
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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	480 h	4-5	0
Degree of blistering	800 h	0	0
Degree of delamination around a scribe	480 h	4 (S4)	0 (S0)
Degree of blistering / corrosion around a scribe	480 h	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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