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
Let down	*-- part 3 --*		
	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

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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

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			Control with calcium carbonate and talc	**AKTIFIT PF 115** L 00014.2 [3]
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 after 1 h regeneration time and tape tear-off		3	0
Degree of rusting / cracking / flaking	480 h	0	0
Degree of blistering	480 h	4-5 (S3)	0 (S0)
			
Under-film corrosion	*stripped*		

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		Control with calcium carbonate and talc	**AKTIFIT PF 115** L 00014.2 [3]

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