

## Industrial coating Anti-corrosion 2K epoxy primer, water-based, gray Deutsche Bahn, high requirements to mechanical flexibility, adhesion and corrosion protection Free of active anti-corrosion pigments or inhibitors, fast drying and sandability

Basis

Epoxy resin (solid epoxy resin and hydrophobic amine)

			Basis Allne REC 19011 with talc and barite		
	L 00040.3		[1]	[3]	[9]
Component A	part 1				
	Demineralized water		11.94	11.94	11.94
	Additol VXW 6208	(1)	3.52	3.52	3.52
	Additol VXW 6393	(1)	0.16	0.16	0.16
	Texanol	(2)	0.64	0.64	0.64
	part 2				
	Talc		9.06		
	Barite		24.62	13.00	13.00
	AKTISIL AM	(3)		15.37	
	SILLITIN V 85	(3)			15.37
	Kronos 2190	(4)	21.85	21.85	21.85
	Bayferrox 3920	(5)	0.43	0.43	0.43
	Bayferrox 306	(5)	1.17	1.17	1.17
	part 3				
	Additol VXW 6388	(1)	0.64	0.64	0.64
	Methoxypropanol		1.07	1.07	1.07
	part 4				
	Beckocure EH 2261w/41WA	(1)	24.90	24.90	24.90
	Total parts by weight		100.00	94.69	94.69
Component B	Beckopox EP 387w/52WA	(1)	49.80	49.80	49.80

## Recommended

Base formulation with very good corrosion protection and outstanding substrate adhesion

[3] additionally optimized storage stability and sedimentation stability

[9] additionally optimized cupping for maximum mechanical flexibility



## GUIDE FORMULATION || page 2 of 5



	L 000	040.3	3				[1]	[3]	[9]		
Preparation	- mix ı	raw	materials fro	m part 1							
Komponente A		- stir in raw materials from part 2 in the indicated order and disperse by dissolver with toothed disc to a particle size of 20 $\mu m$									
	- succ	cessi	ively add the	raw material	Is from parts 3	3 and 4 for	completion				
Application	- mix (	com	ponent A an	d B shortly be	efore applicat	ion					
	- dilute	- dilute with water to spray viscosity									
	- air s	- air spray gun, 2 bar, nozzle 2 mm									
	- dry f	film t	thickness: ≈ 9	95 µm, single	e- layer						
Drying	- pendulum hardness, cross-cut test, cupping: 7 days @ standard climate 23/50; or as indicated										
	- humidity test, cyclic corrosion test: 14 days @ standard climate 23/50										
Suppliara	(1)	^	Allpoy								
Suppliers	(1)		Allnex								
	(2)			emical Compa	any						
	(3)		HOFFMANN								
	(4)		Kronos Interr	national							
	(5)	L	_anxess								

## More information on this topic:

Neuburg Siliceous Earth in water-based corrosion protection - 2C epoxy primer grey for trains





				Basis with talc a barite	Ind						
	L 00040.3			[1]	[3]	[9]	_				
Technical Data	* = compliant according to Deutsche Bahn Standard DBS 918300, Anhang B, Blatt 2										
	Mixing ratio A : B			2.0 : 1	1.9 : 1	1.9 : 1	DB				
	Crosslinking ratio		%	49	49	49					
	Solids content w/w		%	64.1	62.8	62.8					
	Solids content v/v		%	47.2*	47.2*	47.2*	≥ 4				
	PVC		%	32.0	32.0	32.0					
Properties	Fineness of grind after 30 min with toothed	disc @ 8 m/s	μm	10-15*	10-15*	15-20*	≤ 3				
	Component A, storage 28	Component A, storage 28 days @ 40 °C									
	Separation stability			poor	very good	good					
	Sedimentation stability			sediment	very good	very good					
	Dyn. viscosity A+B, @ 23	3 °C 0.1 s⁻¹	Pa⋅s	57.8	75.5	97.3					
		1000 s <sup>-1</sup>	Pa⋅s	0.46	0.48	0.48					
	Substrate: cold-rolled steel Q-Panel Type R-48										
	Cross-cut test 2 mm, tape tear-off all: ≤ 1										
	+ 7 d @ 50 °C convection				all: ≤ 1						
	Substrate: slightly sanded deep drawing steel DC04										
	Pendelum hardness Koer		S	46	49	43					
	+ 7 d @ 50 °C convectior		S	95	104	94					
	Cross-cut test 2 mm, tape + 7 d @ 50 °C convectior				all: ≤ 1 all: ≤ 1						
	Cupping test Erichsen		mm	2.9	3.6	5.4*	≥ 4				
	+ 7 d @ 50 °C convectior	า	mm	1.5	3.4	4.6					
	480 h Humidity test DIN EN ISO 6270-2										
		DIN EN ISO 4628-2			all: 0 (S	0)					
		DIN EN ISO 4628-3			all: Ri (	-					
	<b>v v</b>	DIN EN ISO 4628-4			all: 0 (S						
		DIN EN ISO 4628-5			all: 0 (S						
	Cross-cut test 2 mm, tape				all: ≤ 1						
	Cross-cut test 2 mm, tape				all: ≤ 1						

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			Basis with talc and barite			
L 00040.3			[1]	[3]	[9]	
Substrate: blasted st	eel, preparation level Sa	1 <b>2</b> ½, rou	ghness "fine (	G)"		DBS
Cross-cut test 2 mm, t	ape tear-off			all: ≤ 1*		≤1
+ 7 d @ 50 °C convec				all: ≤ 1*		≤1
Cupping test Erichsen		mm	2.3	2.8	4.2	
+ 7 d @ 50 °C convec		mm	1.3	2.2	3.3	
Sandability with eccen a.) drying ≤ 16 h @ sta b.) 15 min flash-off + 2		all: very good* sandable without heavy smearing and quick clogging of the sandpaper				
480 h Humidity test DI	N EN ISO 6270-2					
Degree of blistering	DIN EN ISO 4628-2			all: 0 (S0)*		0 (S0)
Degree of rusting	DIN EN ISO 4628-3			all: Ri 0		
Degree of cracking	DIN EN ISO 4628-4			all: 0 (S0)		
Degree of flaking	DIN EN ISO 4628-5			all: 0 (S0)		
Cross-cut test 2 mm, t	ape tear-off, after 0 h			all: ≤ 1		
Cross-cut test 2 mm, t	ape tear-off, after 24 h			all: ≤ 1*		≤1
same result also afte	er 1000 h humidity test					
672 h Cyclic corrosion	test = 4 cycles, DIN EN IS	SO 11997.	-1 cycle B			
immediately after the l	-	00 11001				
Cross-cut test 2 mm, t				all: ≤ 1		
Degree of blistering	DIN EN ISO 4628-2			all: 0 (S0)*		0 (S0)
0		avala (and	of toot)			0 (00)
-	tandard climate = end of o DIN EN ISO 4628-3	sycie (ena	or lest)	all: Ri 0*		Ri 0
Degree of rusting Degree of cracking	DIN EN ISO 4628-4			all: 0 (S0)*		0 (S0)
Degree of flaking	DIN EN ISO 4628-5			all: 0 (S0)*		0 (S0)
Delamination / corrosid				all. 0 (00)		
Sikkens 1 mm	DIN EN ISO 4628-8			all: 1.7 mm*		≤ 2
Cross-cut test 2 mm, t	ape tear-off, after 0 h			all: ≤ 1*		≤ 1
1680 h Cyclic corrosio	<u>n test = 10 cycles</u>					
immediately after the l	ast humidity phase:					
Cross-cut test 2 mm, t	ape tear-off			all: ≤ 1		
Degree of blistering	DIN EN ISO 4628-2			all: ≤ 2 (S2)		
after 48 h storage @ s	atandard climate = end of					
Degree of rusting	DIN EN ISO 4628-3		all:	at most punct	ual	
Degree of cracking	DIN EN ISO 4628-4			all: 0 (S0)		
Degree of flaking	DIN EN ISO 4628-5			all: 0 (S0)		
Delamination / corrosio Sikkens 1 mm				all: 3.2 mm		
Cross-cut test 2 mm, t				all: ≤ 1		
Ciuss-cui lest 2 mm, l	ape lear-on, aller on			aii. ≥ 1		





1 000 40 0			Basis with talc and barite	101	101	
L 00040.3			[1]	[3]	[9]	_
Substrate: blasted al	uminum Type AlMg2Mn	0.8				DBS
Cross-cut test 2 mm, t	ape tear-off			all: ≤ 1		
+ 7 d @ 50 °C convec	tion			al: ≤ 1		
Cupping test Erichsen		mm	1.4	1.5	2.8	
+ 7 d @ 50 °C convec	tion	mm	1.1	1.3	2.1	
480 h Humidity test						
Degree of blistering	DIN EN ISO 4628-2			all: 0 (S0)*		0 (S0)
Degree of rusting	DIN EN ISO 4628-3			all: Ri 0		
Degree of cracking	DIN EN ISO 4628-4			all: 0 (S0)		
Degree of flaking	DIN EN ISO 4628-5			all: 0 (S0)		
Cross-cut test 2 mm, t	ape tear-off, after 0 h			all: ≤ 1		
Cross-cut test 2 mm, t	ape tear-off, after 24 h			all: ≤ 1*		≤ 1
same result also afte	er 1000 h humidity test					
672 h Cyclic corrosion	test = 4 cycles					
immediately after the l	last humidity phase:					
Cross-cut test 2 mm, t	ape tear-off			all: ≤ 1		
Degree of blistering	DIN EN ISO 4628-2			all: 0 (S0)*		0 (S0)
after 48 h storage @ s	standard climate = end of					
Degree of rusting	DIN EN ISO 4628-3			all: Ri 0*		<b>Ri 0</b>
Degree of cracking	DIN EN ISO 4628-4			all: 0 (S0)*		0 (S0)
Degree of flaking	DIN EN ISO 4628-5			all: 0 (S0)*		0 (S0)
Delamination / corrosi Sikkens 1 mm	on at scribe DIN EN ISO 4628-8			all: none*		≤ 2
Cross-cut test 2 mm, t	ape tear-off			all: ≤ 1*		≤ 1
1680 h Cyclic corrosio	n test = 10 cycles					
immediately after the l						
Cross-cut test 2 mm, t	ape tear-off			all: ≤ 1		
Degree of blistering	DIN EN ISO 4628-2			all: ≤ 1 (S2)		
after 48 h storage @ s	standard climate = end of					
Degree of rusting	DIN EN ISO 4628-3			all: Ri 0		
Degree of cracking	DIN EN ISO 4628-4			all: 0 (S0)		
Degree of flaking	DIN EN ISO 4628-5			all: 0 (S0)		
Delamination / corrosion Sikkens 1 mm	on at scribe DIN EN ISO 4628-8			all: none		
Cross-cut test 2 mm, t				all: ≤ 1		
51555 out (551 Z mill, 1				un 1		

Our applications engineering advice and the information contained in this formulation are based on experience and are made to the best of our knowledge and belief, they must be regarded however as non-binding advice without guarantee. Working and employment conditions over which we have no control exclude any damage claim arising from the use of our data and recommendations. Furthermore we cannot assume any responsibility for patent infringements, which might result from the use of our information.

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