**Industrial coating****Anti-corrosion 2K epoxy clear coat, water-based
improved blushing resistance****Basis** Epoxy resin (solid epoxy resin and hydrophobic amine)

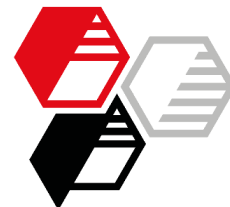
			Control	SILLITIN Z 89 15 pbw	SILFIT Z 91 15 pbw	AKTISIL AM 15 pbw	AKTISIL AM 25 pbw	TP 2008037 25 pbw
	L 00001.1		[1]	[3]	[6]	[4]	[15]	[26]
Component A	Beckocure EH 2260w/41WA	(1)	61.1	61.1	61.1	61.1	61.1	61.1
	SILLITIN Z 89	(2)	---	15.0	---	---	---	---
	SILFIT Z 91	(2)	---	---	15.0	---	---	---
	AKTISIL AM	(2)	---	---	---	15.0	25.0	---
	TP 2008037	(2)	---	---	---	---	---	25.0
Component B	Beckopox EP 147w	(1)	12.5	12.5	12.5	12.5	12.5	12.5
	Beckopox EP 386w/52WA	(1)	37.5	37.5	37.5	37.5	37.5	37.5
	Total parts by weight		111.1	126.1	126.1	126.1	136.1	136.1

Recommendation	[3]	SILLITIN Z 89:	best price/performance ratio
	[6]	SILFIT Z 91:	color neutral, improved blushing resistance
	[4]	AKTISIL AM:	good corrosion resistance, reduced delamination at scribe
	[15]	AKTISIL AM:	best corrosion resistance, nearly no delamination at scribe
	[26]	TP 2008037:	like AKTISIL AM, but more color neutral

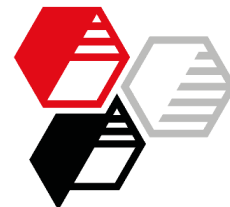
Mixing The preparation of component A was realized by dissolver with adapted bead mill after predispersion by grinding.
The raw materials of component B were premixed.

Application Mix component A and B shortly before application and dilute with water to spray viscosity.
Compressed air spraying, Walther Pilot spray gun, nozzle diameter 2 mm, approx. 1.7 bar
Substrate: steel (Gardobond OC) and aluminum (Gardobond F), both without surface treatment
Drying: 30 min at 60 °C, dry film thickness 50-80 µm
The tests were run after storage 7 d at 23 °C / 50 % rH

Suppliers (1) Allnex
(2) HOFFMANN MINERAL



		Control	SILLITIN Z 89 15 pbw	SILFIT Z 91 15 pbw	AKTISIL AM 15 pbw	AKTISIL AM 25 pbw	TP 2008037 25 pbw	
	L 00001.1	[1]	[3]	[6]	[4]	[15]	[26]	
Technical Data	PVC	%	0	9.9	9.9	9.9	15.5	15.5
	Solids content (not diluted)	%	51.4	57.1	57.1	57.1	60.3	60.3
	<u>Optical properties</u>							
	Substrate: steel (Gardobond OC)							
	Color d/8° L*		67.6	65.7	63.8	64.5	63.3	63.7
	Color d/8° a*		0.1	0.1	0.2	-0.1	-0.1	0.1
	Color d/8° b*		1.1	3.8	3.7	7.5	9.6	5.0
	<u>Mechanical properties</u>							
	Substrate: steel (Gardobond OC) and aluminum (Gardobond F)							
	Cross-cut test (1 mm) DIN EN ISO 2409		0	0	0	0	0	0
	Substrate: steel (Gardobond OC)							
	Cupping test (Erichsen) DIN EN ISO 1520	mm	10.0	8.3	8.0	7.9	6.3	7.4
<u>Humidity test DIN EN ISO 6270-2 CH, 240 h</u>								
Substrate: steel (Gardobond OC) and aluminum (Gardobond F)								
Degree of blistering DIN EN ISO 4628-2				all: no blistering				
Degree of rusting DIN EN ISO 4628-3				all Ri 0: no rusting				
Substrate: aluminum (Gardobond F)								
Blushing resistance, measured as ΔE before/after humidity test			6.6	4.7	2.5	4.2	3.1	3.6
A higher ΔE indicates a higher opacity (corresponding to a stronger milky-white blushing).								









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L 00001.1	[1]	[3]	[6]	[4]	[15]	[26]

Salt spray test DIN EN ISO 9227 NSS, 240 h

Substrate: steel (Gardobond OC)

Delamination at scribe (Ø)

DIN EN ISO 4628-8

mm	20.9	4.0	5.3	2.8	1.5	1.7
						

Substrate: aluminum (Gardobond F)

Delamination at scribe

DIN EN ISO 4628-8

all: no delamination, no rusting

More information on this topic

[Optimization of Corrosion Protection Properties of Waterborne 2C Epoxy Clear Coats](#)

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