

## Industrial coating

### Anti-corrosion primer for high requirements very high solid, VOC 250 g/l, good acid resistance

**Basis** Epoxy resin (bisphenol A + bisphenol A/F and polyamidoamine adduct)

		R 24403 C
<b>Component A</b>	Araldite GZ 7071 X 75	(1) 130.87
	Araldite GY 783	(1) 98.15
	Luvotix P 25 X	(2) 1.00
	n-Butanol	40.00
	Byk-057	(3) 3.50
	Zinkphosphat ZP 10	(4) 53.90
	Bayferrox 222	(5) 35.90
	AKTISIL AM	(6) 212.33
<b>Component B</b>	Shellsol A 100	(7) 39.10
	Aradur 450	(1) 81.20
Total parts by weight		695.95

### Mixing

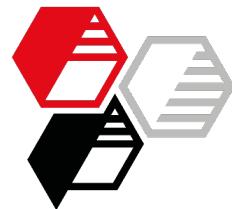
The preparation of component A was realized by dissolver with adapted bead mill after predispersion by grinding (20 min, 7.8 m/s).

Before adding pigment and filler, the liquid parts of component A are premixed for 5 min (using a part of the grinding beads). For activating Luvotix, the temperature of the mill base should exceed 55°C.

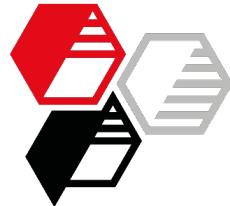
### Application

Spraying by air pressure, single-layered with a dry film thickness of 250 µm on cold-rolled steel (Sa 2½, sandblasted medium (G) according to ISO 8503-1)

<b>Technical Data</b>	Solids content (m/m)	%	85
	PVC	%	29
	VOC	g/l	250



		<i>Control with talc and barite</i>	R 24403 C with AKTISIL AM
<b>Properties</b>			
	Fineness of grind	µm	20
	Sedimentation component A 28 d, 50°C		<i>a lot of, hard</i> none
	Dynamic viscosity A+B 0.1 s <sup>-1</sup> , 23°C	Pa·s	10.2 15.4
	Dynamic viscosity A+B 1000 s <sup>-1</sup> , 23°C	Pa·s	2.4 1.7
	Pot life (viscosity doubled)	min	50 66
	Pendulum hardness after 336 h	s	76 95
	Cross-cut test (3 mm after tape tear-off)		0 0-1
	Abrasion loss	mg	253 128
<b>Salt spray test DIN EN ISO 9227 NSS, 4000 h</b>			
Rating according to DIN EN ISO 4628 part 2-5 and 8			
	Degree of blistering		0 0
	Degree of rusting		0 0
	Degree of cracking		0 0
	Degree of flaking		0 0
	Degree of corrosion around a scribe	mm	< 0.3 < 0.3
	Degree of delamination around a scribe	mm	34 23
	Cross-cut test (3 mm after tape tear-off)		0-1 0-1
<b>Humidity test DIN EN ISO 6270-2 CH, 2000 h</b>			
Rating according to DIN EN ISO 4628 part 2-5 and 8			
	Degree of blistering		0 0
	Degree of rusting		0 0
	Degree of cracking		0 0
	Degree of flaking		0 0
	Degree of corrosion around a scribe	mm	0.4 0.3
	Degree of delamination around a scribe	mm	<i>not evaluated</i> not evaluated
	Cross-cut test (3 mm after tape tear-off)		0-1 0-1
<b>Chemical resistance DIN EN ISO 2812-1</b>			
Rating according to DIN EN ISO 4628 part 2			
	10 % sulfuric acid, 23°C	1000 h	5 (S5) 0
	10 % acetic acid, 23°C	168 h	3-4 (S4) 3-4 (S3)*
* To improve the resistance to organic acids, a cycloaliphatic hardener based on IPD is recommended, whereby results comparable to aromatic amine hardeners can be attained:			
	10 % acetic acid, 23°C	168 h	0 0
		760 h	4 (S4) 2-3 (S5)



R 24403 C

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<b>Suppliers</b>	(1) Huntsman Advanced Materials (2) Lehmann & Voss (3) Byk Chemie (4) Heubach (5) Lanxess (6) HOFFMANN MINERAL (7) Shell Chemicals
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***More information on this topic:***

[Neuburg Siliceous Earth in High Solid Epoxy Coatings](#)

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