

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

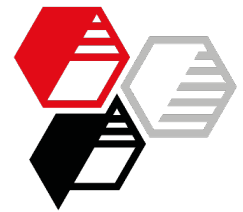
**Basis** Epoxy resin (bisphenol A + bisphenol A/F and polyamidoamine adduct)

			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



Control with  
talc and barite

R 24403 C  
with  
AKTISIL AM

**Properties**

Fineness of grind	µm	20	10-15
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

**Salt spray test DIN EN ISO 9227 NSS, 4000 h**

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

**Humidity test DIN EN ISO 6270-2 CH, 2000 h**

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

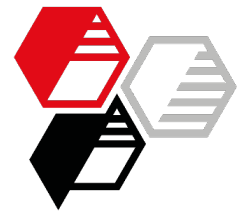
**Chemical resistance DIN EN ISO 2812-1**

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)



**Suppliers**

- (1) Huntsman Advanced Materials
- (2) Lehmann & Voss
- (3) Byk Chemie
- (4) Heubach
- (5) Lanxess
- (6) HOFFMANN MINERAL
- (7) Shell Chemicals

**More information on this topic:**

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

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