**Industrial coating****Anti-corrosion primer for high requirements****very high solid, VOC 250 g/l****Basis** Epoxy resin (bisphenol A + bisphenol A/F and polyamidoamine adduct)

			R 24403 A
Component A	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
	SILLITIN Z 86	(6)	212.33
Component B	Shellsol A 100	(7)	39.10
	Aradur 450	(1)	81.20
	Total parts by weight		695.95

Mixing

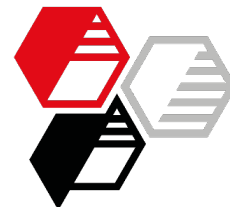
The preparation of component A was realized by dissolver with adapted bead mill after predispersion by grinding (20 min, 7.8 m/s).
 Before adding pigment and filler, the liquid parts of component A are premixed for 5 min (using a part of the grinding beads). For activating Luvotix, the temperature of 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)

Technical Data

Solids content (m/m)	%	85
PVC	%	29
VOC	g/l	250

Control with
talc and bariteR 24403 A
with
SILIITIN Z 86**Properties**

Fineness of grind	µm	20	10-15
Sedimentation component A 28 d, 50°C		<i>a lot of, hard</i>	moderate
Dynamic viscosity A+B 0.1 s ⁻¹ , 23°C	Pa·s	10.2	3.6
Dynamic viscosity A+B 1000 s ⁻¹ , 23°C	Pa·s	2.4	2.1
Pot life (viscosity doubled)	min	50	60
Pendulum hardness after 336 h	s	76	80
Cross-cut test (3 mm after tape tear-off)		0	0-1
Abrasion loss	mg	253	121

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	25
Cross-cut test (3 mm after tape tear-off)		0-1	0-1

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

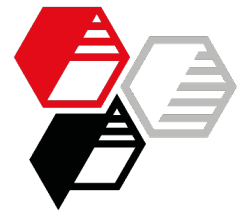
Rating according to DIN EN ISO 4628 part 2-5 and 8

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	1

Chemical resistance DIN EN ISO 2812-1

Rating according to DIN EN ISO 4628 part 2

10 % sulfuric acid, 23°C	420 h	3-4 (S4)	0
10 % acetic acid, 23°C	168 h	3-4 (S4)	3 (S4)



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](#)

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.