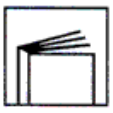
technical data sheet

revision date : 30/07/2020

- product name : ISOPOL Z

Product is compliant with directive 2004/42/EC



building sector
see note 1
2004/42
IIAi(500)500

car refinish
see note 2
2004/42
IIBd(420)420

pictogram legend

2004/42	Reference to EC Directive
II…	Annex, Table and Sub-category of product
(000)	Limit value of VOC with reference to the product sub-category
000	Maximum VOC content in product ready for use

IT CAN BE PRODUCED IN TINTING SYSTEM :

VZ BINDER 70 coloured white: see VZTD82 at page 2

BPN 30

note 1: 0% thinning - catalyse with QA 2028

note 2: 5% thinning with X4 - catalyse with QA 2066

- general features

Two-component ANTI-SCRATCH polyurethane enamel based on modified polyester resins with high gloss, hardness and elasticity as well as excellent resistance to scratches and water.

- use

ISOPOL Z enamels, because of their polyurethane nature, are suitable as anti-corrosive for high-quality painting mostly in the industrial sector and steel work in general.

- recommended cycles

Apply one or two coats of ISOPOL Z on epoxy, epoxy vinyl and acrylic-polyurethane primers and intermediate coats, in compliance with overcoating times. During application and polymerisation, it is advisable to work with ambient temperatures not lower than + 15°C and relative humidity not higher than 85%, with a temperature of the structure at least 3°C above dew point, in order to prevent blooming and matting.

cycle 1 - on ferrous structures anti-corrosion

1	**surface treatment**	:	sand blasting **SA 2½ - 3**
2	**one coat of**	:	ZINCLAX PA 2 60/70 µm thickness
3	**one coat of**	:	EPOVIN UV 80/100 µm thickness
4	**one or two coats of**	:	ISOPOL Z 40/50 µm thickness

cycle 2 - on ferrous structures anti-corrosion

1	**surface treatment**	:	sand blasting **SA 2 - 2½**
2	**one coat of**	:	EPOZINC PZM 70/80 µm thickness
3	**one or two coats of**	:	ISOPOL Z 80/100 µm thickness

cycle 3 - on zinc plated structures

1	**surface treatment**	:	light sanding or pickling with suitable aggressive solutions
2	**one coat of**	:	EPOZINC PZM + Q 120 20/30µm thickness
3	**one or two coats of**	:	ISOPOL Z 40/50 µm thickness

- tests

Cycle 1 : compliant with **ISO 12944 C-5I M**
Test was made in external lab in July 2017

Ciycle 2 : compliant with **ISO 12944 C-3 M**
Test was made in external lab in July 2017

weathering resistance norm ASTM G 53 – 77	
duration of exposure = **300 hours**	
cycle 1)	no change of color or glossy
cycle 2)	no change of color or glossy

- application and thinning method

spray : 5 - 10% with X 4 (polyurethane)
airless : 0 - 5% with X 4 (polyurethane)

- technical and supply data

specific weight : min. 1.090 g/l **- max.** 1.280 g/l

solid content : by weight = min. 58,0 % **- max.** 68,0 %
by volume = min. 50,0 % **- max.** 57,0 %

film appearance glossy 98 gloss

color : on demand

kind of produc btwo-component

catalysis ratio :	by weight	by volume
Z QA : 2028 ST - 2009 FAST - 2029 SLOW	100 50	contact technical service
Z QA 2045 (extra fast)	100 50	contact technical service
Z QA 2066 UHS	100 30	contact technical service

pot-life at 25°C. 5 hours

typical thickness : 40/50 micron

theor. coverag min. 9,0 m²/l **- max.** 11,0 m²/l

drying time at 25°C. :
dust free : 10 - 20 minutes
touch free : 2 - 4 hours
depth : 18 - 24 hours
polymerized : about 7 days

baking : 1 hour at 80 °C

temperature resistance : 100 °C

overcoating time :
min. : 30 minutes **- max. :** 6 - 8 hours

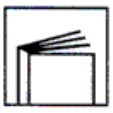
shelf life: 24 months at a + 5/35°C

technical data sheet

revision date : 30/07/2020

- product name : ISOPOL ZTD 82

Product is compliant with directive 2004/42/EC



building sector
see note 1
2004/42
IIAi(500)500

car refinish
see note 2
2004/42
IIBd(420)420

pictogram legend

2004/42	Reference to EC Directive
II…	Annex, Table and Sub-category of product
(000)	Limit value of VOC with reference to the product sub-category
000	Maximum VOC content in product ready for use

IT CAN BE PRODUCED IN TINTING SYSTEM :

VZTD82 BINDER 100 white and derivatives

BPN see formulas

note 1: 0% thinning - catalyse with QA 2028

note 2: 5% thinning with X4 - catalyse with QA 2066

- general features

Two-component ANTI-SCRATCH polyurethane enamel based on modified polyester resins with high gloss, hardness and elasticity as well as excellent resistance to scratches and water.

- use

ISOPOL ZTD enamels, because of their polyurethane nature, are suitable as anti-corrosive for high-quality painting mostly in the industrial sector and steel work in general.

- recommended cycles

Apply one or two coats of ISOPOL ZTD on epoxy, epoxy vinyl and acrylic-polyurethane primers and intermediate coats, in compliance with overcoating times. During application and polymerisation, it is advisable to work with ambient temperatures not lower than + 15°C and relative humidity not higher than 85%, with a temperature of the structure at least 3°C above dew point, in order to prevent blooming and matting.

cycle 1 - on ferrous structures anti-corrosion

1	**surface treatment**	:	sand blasting **SA 2½ - 3**
2	**one coat of**	:	ZINCLAX PA 2 60/70 µm thickness
3	**one coat of**	:	EPOVIN UV 80/100 µm thickness
4	**one or two coats of**	:	ISOPOL ZTD 40/50 µm thickness

cycle 2 - on ferrous structures anti-corrosion

1	**surface treatment**	:	sand blasting **SA 2 - 2½**
2	**one coat of**	:	EPOZINC PZM 70/80 µm thickness
3	**one or two coats of**	:	ISOPOL ZTD 80/100 µm thickness

cycle 3 - on zinc plated structures

1	**surface treatment**	:	light sanding or pickling with suitable aggressive solutions
2	**one coat of**	:	EPOZINC PZM + Q 120 20/30µm thickness
3	**one or two coats of**	:	ISOPOL ZTD 40/50 µm thickness

- tests

Cycle 1 : compliant with **ISO 12944 C-5I M**
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Ciycle 2 : compliant with **ISO 12944 C-3 M**
Test was made in external lab in July 2017

weathering resistance norm ASTM G 53 – 77	
duration of exposure = **300 hours**	
cycle 1)	no change of color or glossy
cycle 2)	no change of color or glossy

- application and thinning method

spray : 5 - 10% with X 4 (polyurethane)
airless : 0 - 5% with X 4 (polyurethane)

- technical and supply data

specific weight : min. 1.250 g/l **- max.** 1.320 g/l

solid content : by weight = min. 70,5 % **- max.** 72,0 %
by volume = min. 58,0 % **- max.** 60,0 %

film appearance glossy 98 gloss

color : on demand

kind of produc btwo-component

catalysis ratio :	by weight	by volume
Z	100	contact technical service
QA : 2028 ST - 2009 FAST - 2029 SLOW	50	
Z	100	contact technical service
QA 2045 (extra fast)	50	
Z	100	contact technical service
QA 2066 UHS	30	

pot-life at 25°C. 5 hours

typical thickness : 40/50 micron

theor. coverag min. 9,0 m²/l **- max.** 11,0 m²/l

drying time at 25°C. :
dust free : 10 - 20 minutes
touch free : 2 - 4 hours
depth : 18 - 24 hours
polymerized : about 7 days

baking : 1 hour at 80 °C

temperature resistance : 100 °C

overcoating time :
min. : 30 minutes **- max. :** 6 - 8 hours

shelf life: 24 months at a + 5/35°C