



Technical datasheet

Product denomination:	BELEPOX 2C anticorrosive primer																		
Product structure:	Epoxy-synthetic resin-based, reactive, anti-corrosive primer and intermediate paint of two-components, which contains Zn-oxide, Zn-phosphate anti-corrosive pigments																		
Field of application:	Anti-corrosive and weather-proof primer of steel structures resp., superstructures.																		
Colour and gloss:	Grey, light grey, red, oxide yellow and based on request (RAL)																		
Highlighted properties:	<ul style="list-style-type: none"> • Excellent protection against corrosion • Good fill ability • Good applicability even in thick layer 																		
Non-volatile matter content, %:	70-74 (by weight)	58-62 (by volume)																	
Density, g/ml, (20°C):	1,59-1,69 (mixed)																		
Hardeners:	BELEPOX 2K hardener (component "B")																		
Thinners:	M007 Thinner, M012 Thinner																		
Mixing ratio:	7:1 (by weight)	4:1 (by volume)																	
Pot life (20°C):	4h;	Increasing of the temperature reduce the pot life.																	
Theoretical sufficiency with recommended film thickness (m²/kg):	<table border="1"> <tr> <td>wet</td> <td>85 µm</td> <td>dry</td> <td>40 µm</td> </tr> <tr> <td>wet</td> <td>100 µm</td> <td>dry</td> <td>60 µm</td> </tr> </table>	wet	85 µm	dry	40 µm	wet	100 µm	dry	60 µm	9,5 m ² /kg (colour dependent) 7,5 m ² /kg (colour dependent)									
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(Practical coverage depends on many factors with respect to the shape of unit, surface roughness, condition and methods of application) The data apply for iron oxide yellow. Values can vary depending on colour or gloss level.																			
Drying conditions:	at 20°C and 65% rel. humidity, in 40µm DFT with 20 min. flash-off time																		
Drying temperature:	20°C	60°C	90°C																
Drying levels:	<table border="1"> <tr> <td>surface dry (ISO 9117-3:2010)</td> <td>1 hrs.</td> <td>30 min.</td> <td>10 min.</td> </tr> <tr> <td>touch dry (ISO 9117-5:2012)</td> <td>3 hrs.</td> <td>60 min.</td> <td>15 min.</td> </tr> <tr> <td>overcoatable</td> <td>16 hrs.</td> <td>2 hrs.</td> <td>35 min.</td> </tr> <tr> <td>thorough drying (ISO 9117-4:2012 ; 5)</td> <td>24 hrs.</td> <td>3 hrs.</td> <td>45 min.</td> </tr> </table>	surface dry (ISO 9117-3:2010)	1 hrs.	30 min.	10 min.	touch dry (ISO 9117-5:2012)	3 hrs.	60 min.	15 min.	overcoatable	16 hrs.	2 hrs.	35 min.	thorough drying (ISO 9117-4:2012 ; 5)	24 hrs.	3 hrs.	45 min.		
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Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation. Recoatable after total curing no limitation. Attention! Below 20°C drying time is radically increasing.																			
Cleaning equipment:	M023 Thinner																		
Recommended topcoats:	MOBILUX 2C high gloss top-coat, SOLVACRYL STANDARD 2C top-coats																		
Surface preparation																			
Basic surface:	Clean to metal iron and steel surface (recommended Sa 2 1/2), acid-proof, Chromated aluminium, phosphated and surface treated galvanized steel The surface must be free from grease, oil, dust and pollution. Primed surfaces: Oil, grease, salt and dirt are removed from the surface by appropriate means. Repair any damage to the primer coat. Note the overcoating time of primer. (ISO12944-4)																		
Application conditions:	All surfaces must be clean, dry and free from contamination. The temperature of the ambient air, surface and paint should not fall below +5°C during application and drying. Relative humidity of the air should not exceed 80% during application and drying. The surface temperature of steel should remain at least 3°C above the dew point. Good ventilation and sufficient air movement is required in confined areas during application and drying. In order to obtain an even, non-porous finish, spray a misty coat: first a thin layer, then let the solvents evaporate for 5–30 minutes and then apply the full coat.																		
Mixing components:	First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use power mixer for mixing. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface and weaken the properties of the coating.																		

2/1	BELEPOX 2C anticorrosive primer	BELEPOX 2K korróziógátló alapozó	TDS-002 20.08.11.
	Date of validity:	2015.01.02	



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Utilization manner:	Brushing		Spraying		Special
	+		+		+
Utilizable aerographs, equipment:	Suction tank Gravity tank	Pressure tank	Electrostatic	Airless	Airmix
Recommended equipment:	+	+	+	+	+
Measuring method:	at DIN4 20°C	at DIN4 20°C	at DIN4 20°C	at DIN4 20°C	at DIN4 20°C
Dilution (with M007 Thinner):	5%	5%	5%	delivery form	2%
Viscosity (s):	20-24	20-24	20-25	40-60	30-45
Nozzle size (mm):	1,4-1,8	1,2-1,8	1,4-1,6	0,11-0,24"	0,09-0,21"
Spraying pressure (bar):	3-5	3-5	3-5	-	0-4
Paint pressure (bar):	-	2-3	-	150-200	70-100
Specific resistance (Ωcm):	-	-	$2 \times 10^6 - 5 \times 10^7$	-	-
Recommended coating systems:	Coatings name:		Number of layers:	DFT:	WFT:
1	Belepox epoxy anticorrosive primer		1	50 μm	75 μm
	Belepox epoxy anticorrosive primer		1	40 μm	60 μm
	MOBILUX 2K polyurethane top-coat		1-2	40 – 60* μm	50 - 70 μm
2	Belepox epoxy anticorrosive primer		1	50 μm	75 μm
	Belepox epoxy anticorrosive primer		1	40 μm	80 μm
	Belepox epoxy top-coat		1-2	40 – 60* μm	50 - 70 μm
3	Belepox epoxy anticorrosive primer		1	50 μm	75 μm
	MOBILUX 2K polyurethane filling primer		1	40 μm	80 μm
	MOBILUX 2K polyurethane top-coat		1-2	40 – 60* μm	50 - 70 μm
VOC 2004/42/EC:	The Volatile Organic Compounds amount is 380 g/litre of paint mixture. VOC content of the paint mixture (thinned 22% by volume) is 495 g/l. EU limit value according to Directive 2004/42/EC for this product (category A/j): 500 g/l This product has the following maximum VOC-values: applied by brush/roller with 2K-EP-Härter EP 950-25: < 500 g/l of VOC				
Keeping its quality (+5°C-+25°C):	12 months in unopened original packaging				
Health and safety:	Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets. Safety data sheet is available on request. For industrial and professional use only!				

Remark : In case of applying colours of solvent content the security instructions must strictly be followed.

The field of application and utilizing technologies announced in the product manual are recommended according to our latest technical knowledge. However they do not substitute the detailed application instructions fitting for local conditions. Our remarks and statements should be considered -in this terms – as informal.

2/2	BELEPOX 2C anticorrosive primer		BELEPOX 2K korróziógátló alapozó		TDS-002 20.08.11.
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