



# **RELATED PRODUCTS**

THIN 50 Universal solvent, slow, standard, fast

#### <u>USE</u>

• Epoxy Primer 1K is a free air-drying product. The primer is perfect as a base coat for steel, cast iron, galvanized steel and aluminium. The product exhibits very good adhesion and mechanical resistance.

# **PROPERTIES**

- Professional anti-corrosion protection
  - Short drying time



# **EP PRIMER 311**

Technical Data Sheet 28.08.2019

	20.00.201						
SUBSTRATES	SUBSTRATES						
Steel and cast iron		The steel/cast iron substrate shall be dry and free of oils, grease, dust, loose old coatings, milling scale, loose rust and foreign bodies. The surface shall exhibit bare metallic gloss. Mat smooth and shining metallic surfaces with P120 sand paper to produce sufficient substrate roughness.					
Galvanized steel		Cure the galvanized substrates minimum 4 months prior to application. Degrease and gently mat with an abrasive finishing pad to produce a porous texture. Degrease again.					
Aluminium		Degrease, mat with P240 to P320 sand paper and degrease again.					
Old coatings		Mat and degrease. If the coating adheres poorly, remove it completely. Test coat a small area of the old coating. If the dry coat finish is unsatisfactory, remove the old coating completely and pretreat the substrate as instructed above.					
Note: Dry sanding gene	rates du	st. Proper respiratory prote	ction is recommended.				
MIXING RATIO							
		Coating method	Product	Volume ratio	Weight ratio		
		Rollers or brushes	EP PRIMER 311	-	-		
		Pneumatic spraying	EP PRIMER 311 Universal solvent THIN 50	100 50%	100 37		
		Airless spraying	Anti-corrosion Epoxy Primer 1K Universal solvent THIN 50	100 30%	100 22		
VISCOSITY							
	DIN 4/20°C Pneumatic spraying		22 - 24 s				
COLOURS							
Beige							
VOC CONTENT							
VOC II/B/c limit* Actual VOC			780 g/l 695 g/l				
* For ready to	apply m	ixture acc. to EU Directive	2004/42/EC				
APPLICATION CONDITIONS							
<ul> <li>The relative humidity n</li> <li>Do not coat at high humidity</li> <li>The application condition</li> </ul>	ure: +10° ice and a nust not midity (e ns deter	ambient temperatures must exceed 80%. .g. when rain, snow or fog i	be between +5°C and +30°C. is forecasted), on hot afternoons an ng time and the developed coating p t or more.	d/or in strong wir properties. The s	nd. ubstrate		



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APPLICATION						
		Nozzle	Pressure	Distance		
	Pneumatic spraying	1.3 - 1.5 mm	2 - 4 bar	15 - 20 cm		
<b>CAUTION:</b> Follow the equipment manufacturer's guidelines	Airless spraying in air jacket	0.28 - 0.33 mm (0.011" - 0.013 ")	100 - 120 bar Air jacket 2 bar	10 - 15 cm		
	Brush		Natural bristle brushes or natural and synthetic bristle brushes are recommended.			
<b>\</b>	Roller		Velour and mohair rollers are recommended.			
prior to coating. Caution!	arameters depend on the individual p		irements of the tool a	nd must be tested		
	nd edges have been properly coated. type, the coating may result with air		and form craters durin	g drying.		
	Recommended number of layers	2 - 3 Apply in more layers on complex shapes to produce a homogeneous coating thickness.				
	Overall wet layer thickness	130 - 160 μm				
	Overall dry layer thickness	40 - 50 μm				
	The yield of the ready to use mixture for the given range of dry layer thickness	8.0 m²/l at 50 μm				
	Flash-off time between layers	10 -15 min.				
	Time to recoat (with the enamel)	Recoat after 60 min.				
COATABILITY:						
Alkyd, polyvinyl, and chl	lorinated rubber enamel coats.					
TECHNICAL DATA						
Solids content by w	eight	49 - 53%				
Solids content by volume		30 - 34%				
Density		1.17 ÷ 1.25 g/cm <sup>3</sup>				
Gloss (at 60°), PN-I	EN ISO 2813	10 - 20 (matt)				
Adhesion, PN-EN IS	SO 2409	0 – 1				
Water resistance, P	PN-EN ISO 2812-2	intermittent, not resistant to permanent submersion				
Chemical resistance	e	intermittent (splashes and sprays)				



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DRY LEVELS					
	PN-C 81519	Time			
Dust-free	Level 1	15 minutes			
Tack-free	Level 3	30 minutes			
Ending hardness	Level 6	2 hours			
CAUTION: The drying time may vary with temperature and/or humidity.					
EQUIPMENT CLEANING					
Universal thinner THIN 50 or NC solvent					
STORAGE CONDITIONS					
Store in a dry and cool room, away from sources of fire and heat at 5°C-25°C. Avoid exposure to sunlight.					
SHELF LIFE					
EP PRIMER 311		12 months/20°C			
Universal solvent THIN 50		24 months/20°C			
SAFETY					
See the Safety Data Sheet.					
OTHER INFORMATION					
Registration number: 000024104. The effectiveness of our systems results from laboratory research and many years of experience. The data contained herein meets the current knowledge about our products and their application potential. We ensure high quality, provided the user follows the instructions and the work is performed in accordance with good workmanship. It is necessary to perform a test application of the product due to its potentially different reaction with different materials. We may not be held liable for defects if the final result was affected by factors beyond our control.					