

Technical Data Sheet

# **HYBRID EPOXY PRIMER – ISOLATOR**

Multifunctional Epoxy Primer – Isolating Version

## **PROPERTIES**

- Designed and dedicated for the refinishing of classic cars
- Quick-drying epoxy primer
- Good insulating performance
- Wet on wet application
- Excellent protection against thinners and moisture
- Very smooth surface



## **RELATED PRODUCTS**

HYBRID ISOLATOR HARDENER

Hybrid isolator hardener for the HYBRID EPOXY PRIMER

EPOXY THINNER

Epoxy thinner

## **DESCRIPTION**







The latest generation epoxy primer, which can be an anti-corrosion primer, an isolating primer or a filler depending on the hardener used. Anti-corrosion protection is ensured by the high barrier properties of the epoxy resin and the protective effect of corrosion inhibitors. The HYBRID EPOXY PRIMER with the HYBRID ISOLATOR HARDENER are intended for quick application of isolating layers on polyester materials. The thin-coat primer protects against the absorption of solvents and potential moisture during pretreatments for the application of decorative coatings. This product is recommended in the entire refinishing process for isolating over-sanded spots (exposing bare metal). Suitable for wet-on-wet application







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SUBSTRATES	
Steel – new parts and body panelling	Pretreat as specified in the EPOXY PRIMER TDS or the HYBRID EPOXY PRIMER – ANTI-CORROSION TDS. Coat with the EPOXY PRIMER or the HYBRID EPOXY PRIMER – ANTI-CORROSION.
Electrogalvanized steel – new parts and body panelling	Pretreat as specified in the HYBRID EPOXY PRIMER – ANTI-CORROSION TDS. Coat with the HYBRID EPOXY PRIMER – ANTI-CORROSION.
Bare and electrogalvanized steel – body parts for refinishing	Pretreat as specified in the HYBRID EPOXY PRIMER – ANTI-CORROSION TDS. Coat with the HYBRID EPOXY PRIMER – ANTI-CORROSION.
Aluminium – new parts and body panelling	Pretreat as specified in the EPOXY PRIMER TDS or the HYBRID EPOXY PRIMER – ANTI-CORROSION TDS. Coat with the EPOXY PRIMER or the HYBRID EPOXY PRIMER – ANTI-CORROSION.
Aluminium – body parts for refinishing	Pretreat as specified in the EPOXY PRIMER TDS or the HYBRID EPOXY PRIMER – ANTI-CORROSION TDS. Coat with the EPOXY PRIMER or the HYBRID EPOXY PRIMER – ANTI-CORROSION.
E-coated workpieces	Pretreat as specified in the EPOXY PRIMER TDS or the HYBRID EPOXY PRIMER – ANTI-CORROSION TDS. Coat with the EPOXY PRIMER or the HYBRID EPOXY PRIMER – ANTI-CORROSION.
BODYWORK PRIMER	Pretreat as specified in the EPOXY PRIMER TDS or the HYBRID EPOXY PRIMER – ANTI-CORROSION TDS. Coat with the EPOXY PRIMER or the HYBRID EPOXY PRIMER – ANTI-CORROSION.
HYBRID EPOXY PRIMER – ANTI-CORROSION	The chemical activity life is up to 7 days at 20°C without matting. The recommended time to recoating is 24h at 20°C If necessary, dry sand with a red abrasive needled cloth or P220 - P320 grit paper. Blow off all dust and degrease with the SILICONE REMOVER.
EPOXY PRIMER	After 24 h at 20°C, dry sand with a red abrasive needled cloth or P220 - P320 grit paper. Blow off all dust and degrease with the SILICONE REMOVER.
All NfCC polyester fillers/putties	Finish by dry sanding with P220 - P320 grit paper. Follow by blowing off all dust, degrease with the SILICONE REMOVER and blow off all dust again.
Existing coatings	Finish by dry sanding with P220 - P320 grit paper.
Polyester laminates	Finish by dry sanding with P220 - P320 grit paper.

MIXING RATIO			
	HYBRID EPOXY PRIMER HYBRID ISOLATOR HARDENER	Volume ratio	Weight ratio
		1	100
		1	64
VISCOSITY			
	DIN 4/20°C	14 - 15 s	
VOC CONTENT			
VOC II/B/c limit*		780 g/l	
Actual VOC		620 g/l	
* For a ready for use (RFU) mixture acc. to EU Directive 2004/42/CE.			
APPLICATION CONDITIONS			
It is recommended to apply the filler over 15°C and at a humidity of 80%.			
APPLICATION			
 CAUTION: Follow the tool manufacturer's guidelines	Spray nozzle	1.2 - 1.4 mm	
	Spray tool input pressure	1.8 - 2.2 bar	
	Number of layers	1 - 3	
	NOTE: To effectively isolate spots oversanded to bare electrogalvanised steel, apply the primer in 2 or more layers (with a total DFT of no less than 50 µm).		
	Dry film thickness: 1 layer	20 - 30 µm	
	The yield of the ready to use mixture for the specified range of dry film thickness:	13.0 m <sup>2</sup> /l at 30 µm	
	Mixture life at 20°C	2 h	
	Flash-off time between layers	5 - 10 min	

APPLICATION OF POLYESTER PUTTIES/FILLERS			
See the technical data sheets for polyester putties/fillers from the NfCC line.			
PRIMER/FILLER OR COLOUR COAT APPLICATION over the HYBRID EPOXY PRIMER – ISOLATOR			
	Number of HYBRID EPOXY PRIMER – ISOLATOR layers	1 - 2	
	Drying time of the HYBRID EPOXY PRIMER – ISOLATOR	15 min	
NOTE: Apply the following system layers after no more than 12 hours. Sand the primer if 12 hours has expired.			
CURING TIME			
	Time to sand	20°C	60°C
		3 h	45 min
NOTE: The curing times depend on the temperatures of the individual workpieces.			
IR DRYING			
	Distance	Follow the recommendations of the equipment manufacturer.	
	The time depends on the type and power of the lamp	10 - 20 min	
NOTE: Start IR heating after at least 10 min after applying the last layer.			
SANDING			
	Dry sanding	P360 - P500	
APPLICATION CONDITIONS			
It is recommended to apply the filler over 15°C and at a humidity of 80%. The substrate temperature during application of the filler must be at least 3°C higher than the dew point to avoid condensation and its absorption by the polyester material.			
COLOUR			
Grey			
EQUIPMENT CLEANING			
EPOXY THINNER or NC solvent.			



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<b>STORAGE CONDITIONS</b>	
Store in a dry and cool room, away from sources of fire and heat. Avoid direct exposure to sunlight.	
<b>SHELF LIFE</b>	
HYBRID EPOXY PRIMER	24 months/20°C
HYBRID ISOLATOR HARDENER	24 months/20°C
EPOXY THINNER	24 months/20°C
<b>SAFETY</b>	
See the Safety Data Sheet.	
<b>OTHER INFORMATION</b>	
It is very important to precisely dose each component to obtain a primer with suitable performance parameters. It is good practice to mix the primer with the hardener, followed by addition of the thinner and mixing all three components again.	
Having finished dosing, seal the primer, hardener and thinner containers tight.	
The effectiveness of our systems results from research in the laboratory and many years of experience. The data contained here 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 potential for varying reactions with different materials. We cannot be held liable for defects where the final results were affected by factors beyond our control. Registration number: 000024104.	

**HYBRID EPOXY PRIMER – ISOLATOR**



<b>RFU</b>	<b>HYBRID EPOXY PRIMER</b>	<b>HYBRID ISOLATOR HARDENER</b>
<b>0.10 L</b>	68 g	44 g
<b>0.15 L</b>	102 g	65 g
<b>0.20 L</b>	136 g	87 g
<b>0.25 L</b>	170 g	109 g
<b>0.30 L</b>	204 g	131 g
<b>0.40 L</b>	272 g	174 g
<b>0.50 L</b>	340 g	217 g
<b>0.75 L</b>	510 g	326 g
<b>1.00 L</b>	681 g	435 g
<b>2.00 L</b>	1361 g	870 g