

NOVOL
For Classic Cars

Technical Data Sheet

ELASTIC FIBER

Glass Fiber Body Filler

PROPERTIES

- Designed and dedicated for the refinishing of classic cars
- Low volume shrink
- High mechanical strength
- Smooth surface
- Perfect filling of large defects




DESCRIPTION

A structural body filler with glass fibres, with improved elasticity, complete with the Mixing Indicator for colour-shift based polymerisation ratio control. The Mixing Indicator is a visual reference for your assessment of how thoroughly the filler is mixed with the hardener to avoid component mixing ratio errors. The filler is originally light green; when mixed with the hardener, the colour shifts to grey/green and when polymerisation ends the final colour is light yellow/beige. It is recommended for filling large defects and deformations after body metal sheet repairs. The extremely short glass fibres provide a suitable framework and structure to support subsequent layers.

SUBSTRATES	
EPOXY PRIMER	Apply once the epoxy primer has cured for 24h at 20°C. Dry sand with a claret abrasive cloth or P220 - P240 grit paper. Blow off all dust and degrease with the SILICONE REMOVER.
HYBRID EPOXY PRIMER – ANTI-CORROSION	It is recommended to be applied after 24h at 20°C The chemical activity life is up to 7 days at 20°C without matting. If necessary, dry sand with a red abrasive cloth or P220 - P240 grit paper. Blow off all dust and degrease with the SILICONE REMOVER.
HYBRID EPOXY PRIMER – ISOLATOR	Apply at least 1h at 20°C after application of the HYBRID EPOXY PRIMER – ISOLATOR. Requires no sanding for up to 12h to 20°C. After more than 12h at 20°C, sand with a red abrasive cloth. Thoroughly blow off all dust and degrease with the SILICONE REMOVER.
HYBRID EPOXY PRIMER – FILLER	Can be applied after 24h at 20°C. Dry sand with P220 - P240 grit paper.
Steel	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 – 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.
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.
Existing coatings	Do a solvent effect test. If the old coating resists the solvent, strip it away and apply anti- corrosion protection according to the NfCC processing procedures. Degrease with the SILICONE REMOVER, dry sand with P220 - P240 grit paper, blow off all dust again and degrease again.
Old polyester laminates	Degrease with the SILICONE REMOVER, dry sand with P180 - P240 grit paper, blow off all dust again and degrease again.
Two-component acrylic primers	Degrease with the SILICONE REMOVER, dry sand with P220 - P240 grit paper, blow off all dust again and degrease again.

The NfCC refinishing process does not permit direct application of polyester products on metallic substrates. Anti-corrosion preservation with the EPOXY PRIMER or the HYBRID EPOXY PRIMER – ANTI-CORROSION is required.

MIXING RATIO

		Weight ratio
	ELASTIC FIBER HARDENER	100 g 2 - 3 g

It is natural for polyester fillers to exhibit sedimentation coupled with surfacing of a part of the resin and the dye. It is perfectly normal and common to this type of product.

It is always necessary to homogenize the product by stirring it in the container before mixing with the hardener.

Add the hardener in strict compliance with the specified mixing ratio. Overdosing the hardener will not reduce the curing time required to achieve processability.

Always reseal the container tightly after use.

An unsealed container will cause the reactive monomer (styrene), required for proper cross-linking of the polyester filler, to evaporate.

Any deviation from the light yellow/beige finish colour after drying is evidence of poor mixing of the filler and the hardener. The uncured filler must be removed completely from the car body.

VOC CONTENT

VOC II/B/b limit*	250 g/l
Actual VOC	90 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 at more than +10°C.

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.

APPLICATION

	Pretreat the substrate as specified. Thoroughly blow off all dust from the sanding marks.
	Degrease with the SILICONE REMOVER.
	Mixing ratio by weight: Add 2 - 3 g of the hardener to 100 g of the ELASTIC FIBER. Follow the required hardener ratio. Thoroughly mix the components. The filler colour will gradually shift from light green to grey/green and ultimately to light yellow/beige.

	<p>The curing time is 4 - 8 min to 20°C. The shift from light green colour to grey/green indicates the initiation of crosslinking.</p>				
	<p>It is best to apply the filler to the pretreated surface with the putty knife held at 60° to the surface. The maximum single layer thickness should be 2 - 3 mm*. The maximum total thickness of polyester filler /putty layers should be 5 mm. Avoid application in thick layers at the edges of the work area.</p>				
<p>* Apply the filler as thin as possible to avoid internal stresses which could cause workpiece deformation.</p>					
	<p>Use of the correct PPE is recommended!</p>				
<p>CURING TIME</p>					
	<table border="1"> <thead> <tr> <th data-bbox="584 887 1011 949">20°C</th> <th data-bbox="1011 887 1444 949">60°C</th> </tr> </thead> <tbody> <tr> <td data-bbox="584 949 1011 1010">20 - 30 minutes</td> <td data-bbox="1011 949 1444 1010">10 minutes</td> </tr> </tbody> </table>	20°C	60°C	20 - 30 minutes	10 minutes
20°C	60°C				
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<p>The curing time is specified for the body workpiece temperature and not the air temperature! The polyester filler/putty is fully crosslinked after 72h at 20°C.</p>					
<p>IR DRYING</p>					
	<p>Dry for 10 min maximum. A short-wave IR lamp is recommended. Follow the recommendations of the equipment manufacturer!</p>				
<p>SANDING</p>					
	<p>Step 1: Apply the Control Powder or CONTROL SPRAY Step 2: Rough sand with a hand sanding block or an orbital/eccentric sander and P80 - P120 grit paper Step 3: Blow off all dust and apply the Control Powder or CONTROL SPRAY Step 4: Finish sand (process the edges by hand) using an orbital/eccentric sander and P220 - P240 grit paper</p>				
<p>Due to the smooth surface finish of the ELASTIC FIBER structural filler, it does not require sanding (rough or finish) up to 24 h before application of other fillers (like BLUE LIGHT). Always dry sand the ELASTIC FIBER. Wet sanding may result in coating defects due to the hygroscopic response of the polyester resin and certain polyester filler/putty filling materials.</p>					
	<p>Use of the correct PPE is recommended!</p>				

COLOUR

Light green.

EQUIPMENT CLEANING

NC thinner or THIN 880.

STORAGE CONDITIONS

Store in a dry and cool room, away from sources of fire and heat.
Avoid direct exposure to sunlight.

SHELF LIFE

ELASTIC FIBER	24 months/20°C
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HARDENER	18 months/20°C
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SAFETY

See the Safety Data Sheet. For professional use only.

OTHER INFORMATION

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 if the final results are affected by factors beyond our control.

This TDS supersedes all its previous issues.

Index number: 000024104