



Application Process of **GRINICE**® Automotive Refinish

1 Substrate treatment

- 1. Remove the oil, rust, etc.
- 2. Clean the substrate completely.
- 3. Keep the substrate still for half an hour after cleaning.

2 Apply two component epoxy primer

Suitable Substrate	OEM paints, stainless steel, wood, aluminum, galvanized sheet, putty, galvanized steel, glass fibre reinforced plastic								
Sanding	Sand after the finish become drying and soli				id, wet sanding with P800#~P1000#				
Mix Ratio (by volume)	Hardener	Primer: 3 j : 1 part 1~2 parts	parts						
Pot Life	4 hours@20°C				Spray Equipment	Gravity type: 1.2~1.5mm, 3~4Pa Suction type: 1.2~1.7mm			
Spray	1~2 layers coatings can be sprayed 5~10 minutes between coats			ed		1. Remove oil and then sand the surface with P180 before spray, use degreaser to clean the surface. Keep			
Flash-off									
Temperature	10℃	20℃	40℃	70℃		it 10 minutes before spray. 2. The epoxy primer must be sanded if the drying time exceeds 24 hours@ 20°C before spraying the new surface. 3. It is a must to use the supporting			
Non Cohesive time	60 minutes	15 minutes	10 minutes	5 minutes	Precautions				
Drying Time before Sanding	24 hours	12 hours	2 hours	30 minutes		hardener and thinner. 4. Close the tin cover shortly after			
If the drying 2K epoxy pri			020℃, the			taking some paints from the tin.			

3 Apply putty

Mix Ratio	Putty: 100 parts
(by weight)	Special hardener: 2~3 parts
Procedure	 Remove the rusted phosphor, oil, old paint film, and water completely with solvent and sanding machine. The mix ratio between main component and hardener by volume: 100:2 Prepare the main component and hardener, after the colour is mixed evenly, please use it within 8 to 15 minutes. The pot life is affected by temperature and humidity. When embedding the putty, do not make bubble inside, trim it with putty knife. It cannot be grinded until it become solid completely. It need more than 1 hour@20°C to be hard. It takes longer time to be hard in rainy season.



4 Apply 2K primer surfacer

Suitable Substrate	All original coatings, nude iron surface, putty					
Unapplicable Substrate	Galvanized steel, stainles	Colour	Light yellow, grey, white			
Mix Ratio (by volume)	2K Surfacer : 5 parts Hardener : 1 part Thinner : 1 part					
Pot Life	2 hours@20°C SprayTool and Pressure		Gravity type: 1.2~1.5mm, 4Pa Suction type: 1.4~1.6mm (Spray 30~50?m)			
Spray	2~3 layers				1. 2K surfacer can be sprayed after sanding and removing the oil and stain on the surface of the putty, epoxy primer, old paints.	
Flash-off	5~10 minutes between coats		Procedure	re		
Drying Time before Sanding	3 hours@20°C 30 minutes@60°C				2. 30μm must be kept after sanding on the intermediate coating layer.	
Sanding	Before spray: P180~P40 After spray: P800~P100	, ,				

5 Apply the following 2K topcoat and basecoat

*1K metallic paint or pearl paint (M&P series)

Suitable Substrate	Old finish and surface of primer			Colour	According to the choices of the customers		
Sanding	Sanding by 1000	# sand paper					
	Temperature	1 part	0.	8-1 parts			
Mix Ratio	<15℃	M&P series	Thinner GN-902			After spray 1K metallic basecoat, please spray the varnish within 1 hour in	
(by volume)	15-25℃	M&P series					
	>25℃	M&P series					
Spray Tool and Pressure	Gravity type: 1.2~1.5mm, Suction type: 1.2~1.7mm, Spray pressure: 3-5KG/cm ²				Precautions	order to guarantee the accuracy and repetitiveness of the colour formulation. Please stir the paint evenly	
DryingTime	Between 15 min varnish	utes to 1 hour@	20℃,	spray the		before use.	

*2K solid colour paint (S series)

Suitable Substrate	Old finish and all kinds of primer and grey surface		Colour	According to the choices of the customers		
Sanding	Wet sanding by	800# and 1000#	sand paper			
	Temperature	2 parts	1 part	0.5~0.8 parts		
Mix Ratio	<15℃	2K solid paint	Hardener GN-611	Thinner GN-901	D 4 I : C	4 hours@20°C
(by volume)	15-25℃	2K solid paint	Hardener GN-612	Thinner GN-902	Pot Life	4 nours@20 C
	>25℃	2K solid paint	Hardener GN-613	Thinner GN-903		



Spray Gun & Air Pressure	Gravity type: 1.2~1.5mm, Suction type: 1.2~1.7mm, Spray pressure: 3-5KG/cm ²					
Spray Method	Apply two coats or three coats with single spray, volatilization time of each layer: 5 to 10 minutes@20°C. Film thickness: $40{\sim}50\mu m$					
	Temperature Non cohesive dus		Touchable with finger	Drying & Curing		
DryingTime	20℃	20℃ 1 hour		24 hours		
	60℃	5 minutes 10 minutes		60 minutes		
Precautions	 It is necessary to spray the plastic primer if the users want to spray on the plastic surface, 3 single coats should be sprayed, the volatile time is 10 to 15 minutes. The paint film can be repaired or polished after specific drying time. Mix colours according to the formulation. It is requested to stir the paint evenly before use. 					

6 Apply clearcoat

Suitable Substrate	The surface of 1K basecoat		Colour	Transparei	nt		
	Temperature	2 parts	1 part	0.2∼0.5 pa	rts		3-4 hours @20℃
M: D :	remperature	Varnish	Hardener	Thinner		Pot Life	
Mix Ratio (by volume)	<15℃	GN-889	GN-611	GN-901			
(=)	15-25℃	GN-888	GN-612	GN-902			
	>25°C	GN-666	GN-613	GN-903			
Spray Gun & Air Pressure	Gravity type: 1.2~1.5mm, Suction type: 1.2~1.7mm, Spray pressure: 3-5KG/cm ²						
Spray Method	Apply two coats thickness: 30-40		aint film	Drying time	Drying time 30 minutes 24 hours@.		

7 Polishing & waxing

- $1. \, Sanded \, with \, sand \, paper, \, remove \, the \, dust \, particles \, and \, curtaining, \, then \, polish \, again.$
- 2. Polish with wax stone, then polish with sand paper, make the surface flat and glossy.
- 3. Use the wax water to polish the surface in order to keep the gloss for long time.

Precautions 1. Do not wash the wool ball with corrosive materials. 2. Make sure the wool ball does not include sands or other hard material.
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