



**Onwings®**

# **TECHNICAL DATA SHEET**



**DONGLAI COATING TECHNOLOGY**  
**[www.onwings.com](http://www.onwings.com)**

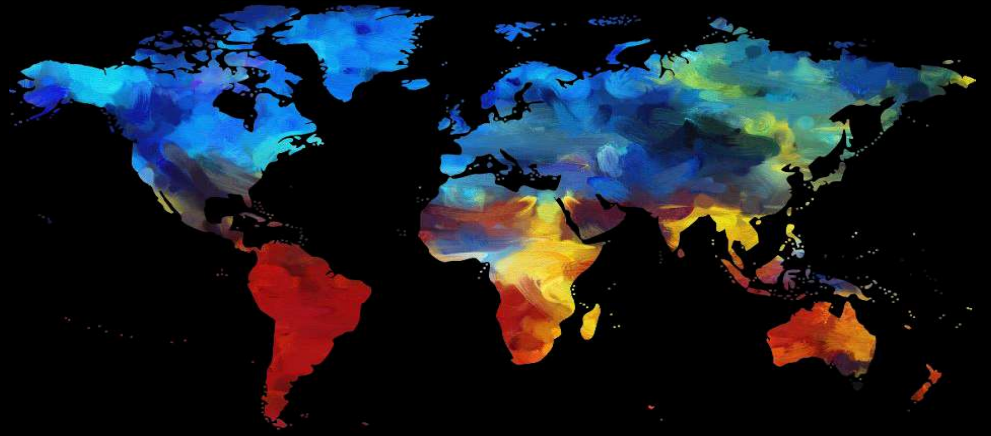
Donglai Coating integrates the global capital, talents, and technology resources. Donglai provides car refinish paint, fluorocarbon protective paint, interior & exterior parts paints, 3C advanced paints, which covers the whole coating solution.

As top three and the only one joint venture refinish paint brand within the top 10 mainstream car refinish suppliers, we target to become market leader and the only Chinese power in paint industry by innovative business model, technology research, value-added service and continuously creating unique value to our customers.

Donglai have the following brands : onwings®, onwaves®, Fixs® and Yesky® registered and protected in over 80 countries globally.



# onwings



## MARKET POSITION

- No.1** Chinese car refinish paint brand
- 4166** Car dealer shops' choice
- 24.5%** Average annual grow in last 10 years
- 31** Mainstream Car OEMs certificated



## M Series 1K Solid Colors

Shade Code	Scaleable	Shade Features
M161 Chestnut	0-100%	High chroma,bright,yellowish,to make red pearl series colors.
M162 Magenta	0-100%	Dark purplish red shade.High chroma.
M103 Permanent Red	0-100%	Purplish pink shade, high chroma.
M114 Transparent Bright Red	0-100%	Similar to M194, yellow red with transparent.
M194 Bright Red	50-100%	It makes metallic paint side light and reddish yellow. Not transparent.
M195 Brownish Red	0-100%	Dark gray shade makes metallic paint side light and reddish yellow.Not transparent.
M107 Transparent Gold	0-90%	It's recommended for mixing golden color,reddish yellow.
M108 Transparent Brown	0-100%	It's recommended for mixing golden color,strong reddish.
M109 Transparent Red	0-100%	Relatively transparent, normal opacity.
M223 Orange	0-100%	It makes metallic paint side tone light and reddish yellow. Not transparent
M301 Canary yellow	0-90%	It makes metallic paint face tone yellow shade, green flop. High chroma.
M320 Med. Yellow	0-90%	Adding makes metallic paint side tone more light and reddish yellow. Not transparent.
M322 Yellow	0-90%	Adding makes metallic paint side tone more light and reddish. Not transparent.
M393 Khaki	0-100%	Dark darker yellow tinter makes metallic paint side tone light, stone yellow. Not transparent.
M326 Lemon Yellow	0-90%	It makes metallic paint side tone lighter, yellowish green.
M307 Pure Yellow	0-100%	High chroma is recommended for mixing golden color with yellowish green tone.
M365 Transparent Yellow	0-90%	It's recommended for mixing golden color, face and side tone yellowish green.
M401 Bronze Green	0-80%	High chroma is recommended for mixing golden color, obvious yellowish green shade.
M402 Emerald Green	0-100%	Yellowish green shade, high chroma.
M403 Permanent Green	0-100%	Bluish green shade.
M501 Bright Blue	0-100%	Face tone green, and side tone red, high chroma.
M562 Permanent Blue	0-100%	Face tone is bluer than bright blue, side tone red.
M564 Transparent Blue	0-30%	Face tone blue,side tone green, high chroma.
M565 reddish Blue	0-100%	Both face and side tone purplish blue.
M661 Purple	0-100%	Reddish purple, side tone dark.
M090 Pure White	0-100%	It makes metallic paint face tone haze and side tone light. Recommended for metallic side tone adjustment.
M061 Super White	0-100%	Recommended for basecoat of pearl colors, high concentration, high opacity.
M013 Transparent White	0-50%	To make metallic piant side tone light and blueish, and yellowish at 45°.
M002 Metallic Controller	0-20%	Aluminum controlling resin. Makes positive bevel tone dark while side tone light, more shinning.
M003 Transparent Additive	0-50%	Clear and transparent resin. Overuse will affect opacity.
M881 Special Black	0-100%	Recommended for whole car refinishing, blueish, high concentration.
M805 Pure Black	0-100%	The deepest black toner, high chroma, blueish, high concentration, can be for whole car refinishing.
M806 Hi-concentration Black	0-30%	For fine toning of metallic colors. its side tone becomes light with blueish tone when it is mixed with aluminum

### Attention:

1. Do not mix with S series.
2. High hiding power, wonderful color with third dimension when use with 2K clear coat.

## M Series 1K Metallic Colors

Shade Code	Scaleable	Shade Features
M908 Very Fine Aluminum	0-100%	Most fine aluminum, face and bevel dark, side tone light.
M913 Fine Aluminum	0-100%	Fine aluminum, face and bevel a little dark, side tone grey.
M914 Bright Aluminum	0-100%	Fine aluminum, face bright, with dark side tone.
M915 Fine Bright Aluminum	0-100%	Shinning with strong metallic texture. Face and bevel are bright and white with dark side tone.
M923 Medium Aluminum	0-100%	Face a little darker than M924, side a little lighter than M924. Medium grain diameter.
M924 White Medium Aluminum	0-100%	Face and bevel are bright and side dark.
M931 Med. Bright Aluminum	0-100%	Both face and side tone are bright and sparkling.
M932 Med Coarse Bright Aluminum	0-100%	Slightly coarser and more sparkling than M931. Brighter white than M931 at face and bevel. Darker than it at side.
M940 Coarse Aluminum	0-100%	Coarse and sparkling.
M950 Coarse Bright Aluminum	0-100%	The coarsest and most sparkling aluminum, normal hiding power.
M981 Red Aluminum	0-100%	Red colouring aluminum powder, high colour, side dark.
M984 Green Aluminum	0-100%	Green colouring aluminum powder, high colour, side dark.
M985 Blue Aluminum	0-100%	Blue colouring aluminum powder, M564 tone, face blue, side green, and dark high colour.
M988 Yellow Silver	0-100%	Special color aluminum, golden yellow granules, side tone dark yellow.

### Attention:


1. Do not mix with S series.
2. High hiding power, wonderful color with third dimension when use with 2K clear coat.



<div>  <div>1K Pearl Colors</div> </div>		
Shade Code	Scaleable	Shade Features
P001 White Pearl	0-100%	Middle-diameter, face quite white, side tone beige. Colorful and shinning in the sun.
P002 White Pearl(fine)	0-100%	Fine, face and bevel tone a little dark. Colorful and shinning in the sun.
P003 White Pearl(coarse)	0-100%	Coarse, face quite white, side tone beige. Colorful and shinning in the sun.
P005 Super Fine white Pearl	0-100%	White pearl, finer than WP002.
P006 Glass White Pearl	0-100%	High transparency, high flash in sunlight, Interference effect white pearl, bright white.
P007 Aluminum Pearl	0-100%	Blue and white shinning white pearl, side dark.
P010 Red Pearl(coarse)	0-100%	Noninterference, good opacity, yellowish red, coarse.
P011 Red Pearl(fine)	0-100%	Noninterference, good opacity, yellowish red, fine.
P012 Pure Red Pearl	0-100%	Interference, quality, 90°angle of face misty white, 45°angle of side red,at 15°angle of bevel beige and greenish.
P013 Brown Pearl	0-100%	Noninterference, coarse, reddish yellow, high chroma.
P014 Med. Red Pearl	0-100%	Noninterference, High vibrancy, coverage, pure red pearl color.
P020 Yellow Pearl(fine)	0-100%	Noninterference, fine, face and bevel greenish yellow and dark, side light grey.
P021 Yellow Pearl(coarse)	0-100%	Noninterference, coarse, positive bevel golden and side light grey.
P023 Pure Yellow Pearl	0-100%	Interference, misty white at 90°angle of face, yellow at 45°angle of side , purplish at 15° angle of bevel.
P025 Interfering Yellow Pearl	0-100%	Interference, yellow pearl, similar to P023, coarser than P023
P030 Pure Green Pearl	0-100%	Interference, misty white at 90°angle of face, green at 45°angle of side , at 15° angle of bevel beige and reddish.
P031 Stellar Green Pearl	0-100%	Noninterference, face emerald green, bright red pearl at side.
P040 Pure Blue Pearl	0-100%	Interference, misty white at 90°angle of face, blue at 45°angle of side, beige and orange at 15° angle of bevel.
P041 Blueish Purple Pearl	0-100%	Interference, misty white at 90°angle of face, purplish blue at 45°angle of side, beige and orange at 15° angle of bevel.
P026 Pure Purple Pearl	0-100%	Interference, misty white at 90°angle of face, purple at 45°angle of side, beige and yellowish at 15° angle of bevel.
P008 White Crystal Pearl	0-100%	Special. It has strong metal texture in the sun. Clear as a whole, more sparkling.
P018 Red Crystal Pearl	0-100%	Special, reddishing yellow. It has strong metal texture in the sun. Clear as a whole, more sparkling.
P028 Yellow Crystal Pearl	0-100%	Special, face misty white, yellowish bevel, side purplish cream. Clear as a whole, more sparkling.
P029 Crystal Brass Pearl	0-100%	Special, face reddish yellow, side dark. Clear as a whole, more sparkling.
P038 Green Crystal Pearl	0-100%	Special, face misty white, bevel greenish, side reddish cream color. Clear as a whole, more sparkling.
P048 Blue Crystal Pearl	0-100%	Special, face misty white, bevel blueish, side orangeish cream. Clear as a whole, more sparkling.
P902 Crystal Fine White Pearl	0-100%	Finer and whiter than P008, special pearl, strong metallic texture in sunlight, clear as a whole and more sparkling particles
PB31 Illusion Green Red Pearl	0-10%	Chameleon pearl powder, contrary to PB13, face red and bevel green.
PB13 Red-green Illusion Pearl	0-10%	To make chameleon color series.

**Attention:**

1. Do not mix with S series.
2. High hiding power, wonderful colour with third dimension when use with 2K clear coat.












<div>  <b>2K Solid Colors</b> </div>		
Shade Code	Scaleable	Shade Features
S011 Super White	0-100%	Recommended as main color in white series, high hiding power.
S161 Magenta	0-100%	Recommended as matching deep red, yellowish, high chroma.
S102 Violet red	0-100%	Deep purple and shade, high chroma.
S103 Permanent Red	0-100%	Pink purple red, normal opacity.
S104 Scarlet	0-100%	The highest chroma among red series with a little yellowish, normal opacity.
S105 Brownish Red	0-100%	Yellowish, recommended for matching gray red color.
S223 Orange	0-100%	Strong yellowish in orange colors, recommended for matching red series colors.
S322 Yellow	0-100%	Reddish yellow.
S320 Med. Yellow	0-100%	A little reddish yellow, normal chroma.
S303 Khaki	0-100%	Low chroma, high hiding power.
S326 Lemon Yellow	0-100%	Greenish yellow shade, normal opacity.
S368 Intense Yellow	0-80%	Greenish yellow, high chroma, low opacity.
S402 Transparent Green	0-100%	Yellowish green shade, high chroma.
S403 Permanent Green	0-100%	Bluish green shade, high chroma.
S501 Brilliant Blue	0-100%	Greenish blue shade, high chroma.
S502 Permanent Blue	0-100%	Standard blue, darker and more reddish than brilliant blue.
S505 Reddish Blue	0-100%	Slight purple blue.
S601 Purple	0-100%	Reddish purple, high concentration.
S801 Special Black	0-100%	For black top coat only. Bluish, high concentration.
S802 Black	0-30%	For mixing light colors, low concentration.
S805 Pure Black	0-100%	The deepest black, bluish, high concentration, suitable for whole car application.
S376 Transparent Additive	0-50%	Colorless transparent resin. Overuse will reduce opacity.
S777 Delustering Agent	0-100%	To reduce the lustrousness.

**Attention:**

1. Do not mix with M series and P series.
2. No need of 2K clear coat when mixing with 2K 2:1 hardener.

## S Series Single stage Toners













	<b>Product type</b>	S series is a premium 2K top coat system, for colour-matching & mixed colours, which must be used in conjunction with Onwings 2K hardener A801/A802/A803, to ensure the systems premium quality.		
	<b>Suitable substrate</b>	Old or original paintwork well sanded and cleaned. Primer-Surfacer. Surfaces must be prepared and cleaned correctly before application, unsanded in a wet-on-wet process. Repair areas should be sanded with P400-P500 (by machine) or P800 (by hand) and cleaned.		
	<b>Mixing ratio</b>	S series 2K top coat : Hardener : Reducer = 2: 1:20% Hardener: A801 (Fast) /A802 (Standard) /A803 (Slow) Reducer: A810 (Fast)/A811 (Standard)/A812 (Slow)		
	<b>Spray gun set-up</b>	1.4-1.6 mm (suction gun) - 1.4-1.6 bar at the air inlet 1.3-1.5 mm (gravity gun) - 1.3-1.5 bar at the air inlet		
	<b>Application</b>	Wet on wet spray 2-3 coats		
	<b>Flash-off time</b>	Between coats 5-8 minutes at 20°C / 70°F 8~10 minutes before baking		
	<b>Drying time</b>	Force dry	60°C / 140°F	30 minutes
			Sand/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	15-20 minutes
			Sand/Polishing	3-4 hours
	<b>Pot life</b>	4 hours at 20°C / 70°F		
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.		
	<b>Instructions</b>	1. Stir every toner thoroughly before mixing. 2. The suggested temperature in spray booth 15-30°C / 60-90°F. 3. Carefully sand out minor imperfections in coat such as dust using 1200# or finer sandpaper and repolish the surface to regain gloss. It is best to polish approximately 1-24 hours before put into use.		
	<b>Package size</b>	1L/3.5 L		













## (M Series)1K Basecoat Toners



	<b>Product type</b>	M series is a premium 1K basecoat, for colour-matching and mixed colours, which must be used in conjunction with Onwings clear coat, to ensure the systems premium quality.	
	<b>Suitable substrate</b>	Old or original paintwork well sanded and cleaned, sanded and cleaned Primer surfacer. Surfaces must be prepared and cleaned correctly before application, unsanded in a wet-on-wet process. Repair areas should be sanded with P500-P600 (by machine) or P800 (by hand) and cleaned.	
	<b>Mixing ratio</b>	Basecoat: Reducer = 1:60~80% Reducer: A810 (Fast)/A811 (Standard)/A812 (Slow)	
	<b>Spray gun set-up</b>	1.4-1.6 mm (suction gun) - 1.2-1.4 bar at the air inlet 1.3-1.5 mm (gravity type) - 1.0-1.2 bar at the air inlet	
	<b>Application</b>	Wet on wet spray 2-3 coats	
	<b>Flash-off time</b>	Between coats 5~8 minutes	
	<b>Drying time</b>	Air dry at 20°C / 70°F	10~15 minutes before clear coat application
			Wait 30 minutes before masking
	<b>Clear coat</b>	Clear coat of Onwings (Refer to clear coat TDS)	
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.	
	<b>Instructions</b>	<ol style="list-style-type: none"> <li>1. Stir every toner thoroughly before mixing.</li> <li>2. Please do colour matching with reference to the panel adjacent to the panel being painted.</li> <li>3. Overall car spraying: add 10% Onwings 2K hardener in the base coat to enhance the film performance.</li> <li>4. Sand the basecoat surface with P800 or finer sand paper, then spray the basecoat again.</li> <li>5. When painting new parts with electrophoresis primer, apply Onwings 2K primer before application of basecoat.</li> </ol>	
	<b>Package size</b>	0.5L/1L/3.5L	











## Pearl (P Series)1K Basecoat Toners



	<b>Product type</b>	1K P series pearl basecoat to be mixed with M series basecoat, which must be used in conjunction with Onwings clear coat, to ensure the systems premium quality.	
	<b>Suitable substrate</b>	Old or original paintwork well sanded and cleaned, sanded and cleaned Primer Surfer. Surfaces must be prepared and cleaned correctly before application, unsanded in a wet-on-wet process. Repair areas should be sanded with P500-P600 (by machine) or P800 (by hand) and cleaned	
	<b>Mixing ratio</b>	Basecoat: Reducer = 1 :60~80% Reducer: A810 (Fast)/A811 (Standard)/A812 (Slow)	
	<b>Spray gun set-up</b>	1.4-1.6 mm (suction gun) - 1.2-1.4 bar at the air inlet 1.3-1.5 mm (gravity gun) - 1.0-1.2 bar at the air inlet	
	<b>Application</b>	Wet on wet spray 2-3 coats	
	<b>Flash-off time</b>	Between coats 5-8minutes	
	<b>Drying time</b>	Air dry at 20°C / 70°F	10-15 minutes before clear coat application
			Wait 30 minutes before masking
	<b>Clear coat</b>	Onwings clear coat (Refer to clear coat TDS)	
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation	
	<b>Instructions</b>	<ol style="list-style-type: none"> <li>1. Stir every toner thoroughly before mixing.</li> <li>2. Please do colour matching with reference to the panel adjacent to the panel being painted.</li> <li>3. Overall car spraying: add 10% Onwings 2K hardener in the base coat to enhance the film performance.</li> <li>4. Sand the basecoat surface with P800 or finer sand paper, then spray the basecoat again.</li> <li>5. When painting new parts with electrophoresis primer, apply Onwings 2K primer before application of basecoat.</li> </ol>	
	<b>Package size</b>	0.5L/1L	










## 138 - Production Clear Coat



	<b>Product type</b>	138 Clear coat is a 2K acrylic modified alkyd resin clearcoat, applied with the 139 series hardener.		
	<b>Features</b>	<p>▲ High gloss and great fullness.</p> <p>▲ Excellent environmental protection, environmental protection indicators are better than international standards.</p> <p>▲ Classic clear coat products for mid-range and economy cars</p>		
	<b>Mixing ratio</b>	<p>Clearcoat: Hardener : Reducer = 2:1:15%</p> <p>Hardener: 139F (Fast) / 139 (Standard) / 139S (Slow)</p> <p>Reducer: A810 (Fast)/A811 (Standard)/A812 (Slow)</p>		
	<b>Spray gun set-up</b>	<p>1.4-1.6 mm (suction gun) - 1.4-1.6 bar at the air inlet</p> <p>1.3-1.5 mm (gravity gun) - 1.3-1.5 bar at the air inlet</p>		
	<b>Application</b>	Wet on wet spray 2-3 coats		
	<b>Flash-off time</b>	<p>Between coats 5-8 minutes</p> <p>Flash-off 8-10 minutes before baking</p>		
	<b>Drying time</b>	Force dry	60°C / 140°F	45 minutes
			Rubbing/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	15-20 minutes
			Rubbing/Polishing	4-5 hours
	<b>Pot life</b>	4 hours at 20°C / 70°F		
	<b>Features</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.		
	<b>Instructions</b>	<p>1. The suggested temperature in spray booth 15-30°C / 60-90°F.</p> <p>2. Carefully sand out minor imperfections in coat such as dust using 1200# or finer sandpaper and repolish the surface to regain gloss.</p> <p>3. It is best to polish approximately 1-24 hours before put into use.</p>		
	<b>Package size</b>	5L		











## A770 - Super Curing Air Dry Clear Coat



	<b>Product type</b>	A770 is a two-component 2K clearcoat produced by poly modified acrylic resin, used with Hardener A707.		
	<b>Features</b>	<p>▲ Fast polishing, air dry or baking, balanced performance of gloss, speed and quality.</p> <p>▲ Technical innovation of super curing, suit middle and high-end cars.</p>		
	<b>Mixing ratio</b>	<p>Clearcoat : Hardener : Reducer =4:1:10%</p> <p>Hardener: A707</p> <p>Reducer: A810 (quick dry) / A811 (standard)</p>		
	<b>Spray gun set-up</b>	<p>Spray gun : gravity HVLP type</p> <p>1.3-1.5mm, 1.3-1.5 bar at the air inlet</p>		
	<b>Application</b>	Wet on wet spray 1.5~2 coats		
	<b>Flash-off time</b>	<p>Between coats 2 ~ 3 minutes</p> <p>No flash-off before baking</p>		
	<b>Drying time</b>	15°C	Dust free: :5-7 minutes	Grinding/Polishing:40-50 minutes
		25°C	Dust free: :2-4 minutes	Grinding/Polishing:25-35 minutes
	<b>Pot life</b>	30 minutes at 20 ° C		
	<b>Instructions</b>	<p>1. Storage of Hardener: Keep in sealed container in a cool place;</p> <p>2. Working temperature: pay attention to the possible risks caused by quick drying when applying at a temperature above 35°C;</p> <p>3. Re-spraying: When re-spraying, be sure to irradiate the defect with an infrared lamp to dry for 15 minutes and then re-spray after sanding with 800 # fine sandpaper.</p>		
	<b>Package size</b>	4L		











## A850-HS Weather-resistant Clearcoat



	<b>Product type</b>	A850 weather-resistant clearcoat is a high-solid two-component 2K clearcoat, made of acrylic modified resin, used with hardener A801/802/803.		
	<b>Features</b>	<p>▲ High gloss, high fullness, more vivid colors. Excellent weather resistance</p> <p>▲ Technical indicators are fully balanced, suitable for medium and high-end cars.</p>		
	<b>Mixing ratio</b>	<p>Clearcoat: Hardener : Reducer = 2:1:10%</p> <p>Hardener: A801 (Fast) /A802 (Standard) /A803 (Slow)</p> <p>Reducer: A810 (Fast)/A811 (Standard)/A812 (Slow)</p>		
	<b>Spray gun set-up</b>	<p>1.4-1.6 mm (suction gun) - 1.4-1.6 bar at the air inlet</p> <p>1.3-1.5 mm (gravity gun) - 1.3-1.5 bar at the air inlet</p>		
	<b>Application</b>	Wet on wet spray 1~2 or 2 ~ 3 coats		
	<b>Flash-off time</b>	<p>Between coats 5-8 minutes</p> <p>Flash-off 8-10 minutes before baking</p>		
	<b>Drying time</b>	Force dry	60°C / 140°F	35 minutes
			Rubbing/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	15-20 minutes
			Rubbing/Polishing	3-4 hours
	<b>Pot life</b>	4 hours at 20°C / 70°F		
	<b>Features</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.		
	<b>Instructions</b>	<p>1. The suggested temperature in spray booth 15-30°C / 60-90°F.</p> <p>2. Carefully sand out minor imperfections in coat such as dust using 1200# or finer sandpaper and repolish the surface to regain gloss.</p> <p>3. Drying instructions: If the paint film is too thick, the drying time will be extended.</p>		
	<b>Package size</b>	5L		

## A852 - MS Clearcoat












	<b>Product type</b>	A852 Clear coat is Medium solid 2k acrylic modified alkyd resin clearcoat, applied with the Hardener A801/A802/A803.		
	<b>Features</b>	<ul style="list-style-type: none"> <li>▲ High glossness and high fullness.</li> <li>▲ Standard clear coat products for all car models.</li> </ul>		
	<b>Mixing ratio</b>	Clearcoat: Hardener : Reducer = 2:1:15% Hardener: A801 (Fast) /A802 (Standard) /A803 (Slow) Reducer: A810 (Fast)/A811 (Standard)/A812 (Slow)		
	<b>Spray gun set-up</b>	1.4-1.6 mm (suction gun) - 1.4-1.6 bar at the air inlet 1.3-1.5 mm (gravity gun) - 1.3-1.5 bar at the air inlet		
	<b>Application</b>	Wet on wet spray 2 ~ 3 coats		
	<b>Flash-off time</b>	Between coats 5-8 minutes Flash-off 8-10 minutes before baking		
	<b>Drying time</b>	Force dry	60°C / 140°F	40 minutes
			Rubbing/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	15-20 minutes
			Rubbing/Polishing	4-5 hours
	<b>Pot life</b>	4 hours at 20°C / 70°F		
	<b>Features</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.		
	<b>Instructions</b>	1. The suggested temperature in spray booth 15-30°C / 60-90°F. 2. Carefully sand out minor imperfections in coat such as dust using 1200# or finer sandpaper and repolish the surface to regain gloss.		
	<b>Package size</b>	1L/5L		












## A853 - Anti Blistering clear coat



	<b>Product type</b>	A853 is High-hardness and anti-diarrhea medium-concentration and medium-concentration two-component 2K Clearcoat, produced by acrylic modified resin, used with Hardener A801/802/803		
	<b>Features</b>	<p>▲ Resist environmental pollution, high rigidity without miliaria, easy for subsequent construction.</p> <p>▲ Standard clear coat products for all car models.</p>		
	<b>Mixing rate</b>	<p>Clearcoat : Hardener : Reducer = 2: 1: 15%</p> <p>Hardener: A801 (Fast dry) / A802 (Standard) / A803 (Slow dry)</p> <p>Reducer: A810 (Fast dry) / A811 (Standard) / A812 (Slow dry)</p>		
	<b>Spray gun set-up</b>	<p>1.4-1.6 mm (suction type gun) - 1.4-1.6 bar at the air inlet</p> <p>1.3-1.5 mm (gravity type) - 1.3-1.5 bar at the air inlet</p>		
	<b>Spraying skill</b>	Wet on wet, 2 ~ 3 coats		
	<b>Flash-off time</b>	<p>Between coats 5 - 8 minutes</p> <p>Flash-off 8-10 minutes before baking</p>		
	<b>Drying time</b>	Force dry	60°C / 140°F	40 minutes
			Grinding/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	15-20 minutes
			Grinding/Polishing	4-5 hours
	<b>Pot life</b>	4 hours at 20°C / 70°F		
	<b>Instructions</b>	<p>1. The suggested temperature in baking room is 15~30°C.</p> <p>2. Carefully sand out minor defection on coat such as dust using 1200# or finer sandpaper and repolish the surface to regain gloss. It is apt to polish approximately 1-24 hours before put into use.</p>		
	<b>Package size</b>	1L/5 L		










## A855 - High-weatherability clear coat



	<b>Product type</b>	A855 Clear coat is 2k acrylic modified alkyd resin high solid clearcoat, applied with the Hardener A801/A802/A803.		
	<b>Features</b>	<p>▲ High glossness, high fullness, higher weather resistance.</p> <p>▲ Balanced performance clear coat products for middle and high-end car models.</p>		
	<b>Mixing rate</b>	<p>Clearcoat : Hardener : Reducer = 2: 1: 10%</p> <p>Hardener: A801 (Fast dry ) /A802 (Standard) /A803 (Slow dry)</p> <p>Reducer: A810 (Fast dry)/A811 (Standard)/A812 (Slow dry)</p>		
	<b>Spray gun set-up</b>	<p>1.4-1.6 mm (suction type gun) - 1.4-1.6 bar at the air inlet</p> <p>1.3-1.5 mm (gravity type) - 1.3-1.5 bar at the air inlet</p>		
	<b>Spraying skill</b>	Wet on wet 1-2 coats, or wet on wet 2 ~ 3 coats		
	<b>Flash-off time</b>	<p>Between coats 5 - 8minutes</p> <p>Flash-off 8-10 minutes before baking</p>		
	<b>Drying time</b>	Force dry	60°C / 140°F	35 minutes
			Grinding/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	15-20 minutes
			Grinding/Polishing	3-4 hours
	<b>Pot life</b>	4 hours at 20°C / 70°F		
	<b>Instructions</b>	<p>1. The suggested temperature in baking room is 15~30°C.</p> <p>2. Carefully sand out minor defection on coat such as dust using 1200# or finer sandpaper and repolish the surface to regain gloss. It is apt to polish approximately 1-24 hours before put into use.</p> <p>3. It requires more drying time, if the film thickness is too thick.</p>		
	<b>Package size</b>	5L		












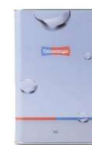
## A856 - Nano Ceramic Clear Coat

	<b>Product type</b>	A856 Clear coat is 2k acrylic modified alkyd resin with Nano ceramic clearcoat, applied with the Hardener A801/A802/A803.		
	<b>Features</b>	<p>▲High hardness, high scratch resistance.</p> <p>▲Balanced performance clear coat products, specially used for luxury cars and super sports cars.</p>		
	<b>Mixing rate</b>	<p>Clearcoat : Hardener : Reducer = 2: 1 :10%</p> <p>Hardener: A801 (Fast dry ) /A802 (Standard) /A803 (Slow dry)</p> <p>Reducer: A810 (Fast dry)/A811 (Standard)/A812 (Slow dry)</p>		
	<b>Spray gun set-up</b>	<p>1.4-1.6 mm (suction type gun) - 1.4-1.6 bar at the air inlet</p> <p>1.3-1.5 mm (gravity type) - 1.3-1.5 bar at the air inlet</p>		
	<b>Spraying skill</b>	Wet on wet 2 coats		
	<b>Flash-off time</b>	<p>Between coats 5 - 8minutes</p> <p>Flash-off 8-10 minutes before baking</p>		
	<b>Drying time</b>	Force dry	60°C / 140°F	50 minutes
			Grinding/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	15-20 minutes
			Grinding/Polishing	5-6 hours
	<b>Pot life</b>	4 hours at 20°C / 70°F		
	<b>Instructions</b>	<p>1. The suggested temperature in baking room is 15~30°C.</p> <p>2. Carefully sand out minor defection on coat such as dust using 1200# or finer sandpaper and repolish the surface to regain gloss. It is apt to polish approximately 1-24 hours before put into use.</p> <p>3. It requires more drying time, if the film thickness is too thick.</p>		
	<b>Package size</b>	1L		













## A857 - Super Clear Coat

	<b>Product type</b>	A857 Clear coat is 2k acrylic modified alkyd resin high solid clearcoat, applied with the Hardener A804.		
	<b>Features</b>	<p>▲High glossness and high fullness. It requires more levelling and drying time.</p> <p>▲Premium clear coat products for all high class car models.</p>		
	<b>Mixing rate</b>	<p>Clearcoat : Hardener : Reducer = 2: 1: 20%</p> <p>Hardener: A804</p> <p>Reducer: A810 (Fast dry)/A811 (Standard)/A812 (Slow dry)</p>		
	<b>Spray gun set-up</b>	<p>1.4-1.6 mm (suction type gun) - 1.4-1.6 bar at the air inlet</p> <p>1.3-1.5 mm (gravity type) - 1.3-1.5 bar at the air inlet</p>		
	<b>Spraying skill</b>	Wet spray 1 layer, or wet on wet 1.5~2 layers		
	<b>Flash-off time</b>	<p>Between coats 5 - 8minutes</p> <p>Flash-off 8-10 minutes before baking</p>		
	<b>Drying time</b>	Force dry	60°C / 140°F	40 minutes
			Grinding/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	15-20 minutes
			Grinding/Polishing	4-5 hours
	<b>Pot life</b>	4 hours at 20°C / 70°F		
	<b>Instructions</b>	<p>1. The suggested temperature in baking room is 15~30°C.</p> <p>2. Carefully sand out minor defection on coat such as dust using 1200# or finer sandpaper and repolish the surface to regain gloss. It is apt to polish approximately 1-24 hours before put into use.</p>		
	<b>Package size</b>	1L		












## A858 - HS Super curing Clearcoat

	<b>Product type</b>	A858 super-curing clearcoat is a high-solid two-component 2K clearcoat, produced by acrylic polyol modified resin, used with hardener A728 .		
	<b>Features</b>	<p>▲ High gloss, high fullness, more vivid colors. Excellent weather resistance</p> <p>▲ Technical indicators are fully balanced, suitable for medium and high-end cars</p>		
	<b>Mixing ratio</b>	<p>Clearcoat: Hardener : Reducer = 2:1:10%</p> <p>Hardener: A728</p> <p>Reducer: A810 (Fast)/A811 (Standard)/A812 (Slow)</p>		
	<b>Spray gun set-up</b>	<p>1.4-1.6 mm (suction gun) - 1.4-1.6 bar at the air inlet</p> <p>1.3-1.5 mm (gravity gun) - 1.3-1.5 bar at the air inlet</p>		
	<b>Application</b>	Wet on wet spray 1~2 or 2 ~ 3 coats		
	<b>Flash-off time</b>	<p>Between coats 2-3 minutes</p> <p>No Flash-off before baking</p>		
	<b>Drying time</b>	Force dry	60°C / 140°F	15 minutes
			Rubbing/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	15-20 minutes
			Rubbing/Polishing	60-80 minutes
	<b>Pot life</b>	1 hours at 20°C / 70°F		
	<b>Features</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.		
	<b>Instructions</b>	<p>1. The suggested temperature in spray booth 15-30°C / 60-90°F.</p> <p>2. Carefully sand out minor imperfections in coat such as dust using 1200# or finer sandpaper and repolish the surface to regain gloss.</p> <p>3. Drying instructions: If the paint film is too thick, the drying time will be extended.</p>		
	<b>Package size</b>	5L		

## A867 - Matte Clear Coat












	<b>Product type</b>	A867 is 2k acrylic modified alkyd resin clearcoat, applied with the Hardener A801/A802/A803.	
	<b>Features</b>	<ul style="list-style-type: none"> <li>▲ High-weatherability.</li> <li>▲ Use on basecoat without other additive.</li> <li>▲ Mix with normal gloss clear to get different level of gloss.</li> </ul>	
	<b>Suitable substrate</b>	Correct manage of former film and surfacer of onwings, grind by # 400-500 sand paper prior to the application	
	<b>Mixing rate</b>	Clearcoat : Hardener : Reducer = 2: 1: 10% Hardener: A801 (Fast dry ) /A802 (Standard) /A803 (Slow dry) Reducer: A810 (Fast dry)/A811 (Standard)/A812 (Slow dry)	
	<b>Spray gun set-up</b>	1.4-1.6 mm (suction type gun) - 1.4-1.6 bar at the air inlet 1.3-1.5 mm (gravity type) - 1.3-1.5 bar at the air inlet	
	<b>Spraying skill</b>	Between coats 5 - 8 minutes for first highlight clear coat, then wet on wet matte clear coat 1 layer	
	<b>Flash-off time</b>	Between coats 5 - 8 minutes Wait 8-10 minutes before baking	
	<b>Drying time</b>	Force dry	60°C / 140°F: 35 minutes
		Air dry 20°C / 70°F	Dust free:15-20 minutes
	<b>Instructions</b>	1. Storage of Hardener: the hardener must be sealed in time after opening the cover, and stored in a cool place. 2. The suggested temperature in baking room is 15~30°C.	
	<b>Package size</b>	5L	



## CA series color clear coat



	<b>Product type</b>	CA series is 2k acrylic modified alkyd resin color clearcoat, applied with the Hardener A801/A802/A803.		
	<b>Features</b>	▲High glossness and high fullness. ▲Suitable for middle and high class cars.		
	<b>Mixing rate</b>	CA clearcoat: Hardener : Reducer = 2: 1: 15% Hardener: A801 (Fast dry ) /A802 (Standard) /A803 (Slow dry) Reducer: A810 (Fast dry)/A811 (Standard)/A812 (Slow dry)		
	<b>Spray gun set-up</b>	1.4-1.6 mm (suction type gun) - 1.4-1.6 bar at the air inlet 1.3-1.5 mm (gravity type) - 1.3-1.5 bar at the air inlet		
	<b>Spraying skill</b>	Spray half layer first, then spray 1~2 layers wet-on-wet		
	<b>Flash-off time</b>	Between coats 5 - 8minutes Flash-off 8-10 minutes before baking		
	<b>Drying time</b>	Force dry	60°C / 140°F	35 minutes
			Grinding/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	15-20 minutes
			Grinding/Polishing	3-4hours
	<b>Pot life</b>	4 hours at 20°C / 70°F		
	<b>Instructions</b>	1. The suggested temperature in baking room is 15-30°C / 60-90°F . 2. Carefully sand out minor deflection on coat such as dust using 1200# or finer sandpaper and repolish the surface to regain gloss. It is apt to polish approximately 1-24 hours before put into use. 3. The thickness of the spray paint film: Compared with the actual standard color, the number of coats must be sprayed, generally 1.5~2.5 coats. Too low paint film thickness will lead to insufficient color, and too high thickness will result in darker color, which will not show the particle effect of the paint surface.		
	<b>Package size</b>	1L		



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## 2K Hardener



**2K HARDENER IS THE ISOCYANATE CURING AGENT,  
TO BE APPLIED WITH S SERIES BASECOAT, 2K PRIMER, CLEARCOAT  
THE DETAILED INFORMATION CAN BE FOUND IN THE TABLE BELOW**

HARDENER	A801	A802	A803	139F	139	139S	A804	A728	A707	A807	A8809
Temperature range	5-15°C	15-25°C	25-35°C	5-15°C	15-25°C	25-35°C	5-35°C	5-35°C	5-35°C	5-35°C	5-35°C
	40-60°F	60-80°F	80-95°F	40-60°F	60-80°F	80-95°F	40-95°F	40-95°F	40-95°F	40-95°F	40-95°F
S Series	2 : 1	2 : 1	2 : 1								
A850	2 : 1	2 : 1	2 : 1								
A851	2 : 1	2 : 1	2 : 1								
A852	2 : 1	2 : 1	2 : 1								
A853	2 : 1	2 : 1	2 : 1								
A855	2 : 1	2 : 1	2 : 1								
A856	2 : 1	2 : 1	2 : 1								
A831	4 : 1	4 : 1	4 : 1								
A8830	3 : 1	3 : 1	3 : 1								
A8831	3 : 1	3 : 1	3 : 1								
A8832	3 : 1	3 : 1	3 : 1								
A8833	3 : 1	3 : 1	3 : 1								
138				2 : 1	2 : 1	2 : 1					
A857							2 : 1				
A858								2 : 1			
A770									4 : 1		
A870										3 : 1	
A8831											3 : 1
Package size	1L/2.5L	1L/2.5L	1L/2.5L	2.5L	2.5L	2.5L	1L	1L	1L	1L	1L

### Attention

- The hardeners are combustible and explosive goods.  
*Attention to fire and explosion protection, avoid to immediate contact with humans.*
- The hardeners should be kept in a cool, dry place and avoid sun exposure.
- Keep sealed after opening.
- Select the hardener according to the application temperature.

**Package size: 1L/2.5L**



## Reducer



**REDUCERS SHOULD BE SELECTED ACCORDING TO THE APPLICATION TEMPERATURE, HUMIDITY AND AREA**

Reducer	A810	A811	A812
Temperature range	5-15°C	15-25°C	25-35°C
	40-60°F	60-80°F	80-95°F
S basecoat	1: 10-30%	1: 10-30%	1: 10-30%
M/P basecoat	1: 60-80%	1: 60-80%	1: 60-80%
Clear coat	1: 0-20%	1: 0-20%	1: 0-20%
A8831	1: 20%	1: 20%	1: 20%
A8833	1: 33-67%	1: 33-67%	1: 33-67%










### Attention

1. Reducers are combustible and explosive goods.
2. Reducers should be kept in a cool, dry place and avoid sun exposure.
3. Choose the Reducer according to the application temperature, humidity and drying condition.

**Package size: 1L/ 5L**










## A844 - Epoxy primer



	<b>Product type</b>	A844 epoxy primer is a two-component high-performance primer, made of epoxy resin, used with hardener A891.	
	<b>Features</b>	<p>▲ Good anti-corrosion and anti-rust effect, which can extend the service life of the substrate</p> <p>▲ Good filling and excellent insulation</p> <p>▲ Good adhesion, salt spray resistance and impact resistance.</p>	
	<b>Mixing ratio</b>	<p>Primer: Hardener : Reducer = 5: 1: 20% (weight)</p> <p>Hardener: A891</p> <p>Reducer: A892</p>	
	<b>Spray gun set-up</b>	<p>1.5-1.7 mm (suction type gun) - 1.5-1.7 bar at the air inlet</p> <p>1.4-1.6 mm (gravity type gun) - 1.4-1.6 bar at the air inlet</p>	
	<b>Spraying skill</b>	Apply 1-2 coats	
	<b>Flash-off time</b>	<p>2-3 minutes between coats</p> <p>No flash-off before baking</p>	
	<b>Drying time</b>	Force dry	60°C / 140°F: 30 minutes
			Grinding/Polishing: Cool down
		Air dry 20°C / 70°F	Dust free: 15-20 minutes
			Grinding/Polishing: 3-4 hours
	<b>Pot life</b>	4 hours at 20°C / 70°F	
	<b>Instructions</b>	<p>1. The suggested temperature in baking room is 15~30°C.</p> <p>2. It requires more drying time, if the film thickness is too thick.</p>	
	<b>Package size</b>	5KG	

## A832 - Plastic Primer












	<b>Product type</b>	A832 is 1K PP resin primer which is designed for plastic parts.	
	<b>Features</b>	<ul style="list-style-type: none"> <li>▲Drying performance: air dry</li> <li>▲Adaptation: apply to all types of external plastic parts on cars.</li> <li>▲Adhesiveness: Promotes adhesion on plastic.</li> <li>▲Filling ability: balanced filling and covering.</li> </ul>	
	<b>Mixing ratio</b>	A832: A810-A811-A812=1: 20%	
	<b>Spray gun set-up</b>	1.5-1.7 mm (suction type gun) - 1.5-1.7 bar at the air inlet 1.4-1.6 mm (gravity type gun) - 1.4-1.6 bar at the air inlet	
	<b>Spraying skill</b>	Apply 1-2 coats, uniformity on plastic.	
	<b>Flash-off time</b>	3-5 minutes between coats	
	<b>Drying time</b>	Air dry 20°C / 70°F	Wait 10-15 minutes before next process
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.	
	<b>Instructions</b>	1. Stir thoroughly before use. 2. The suggested temperature in baking room is 15~30°C 3. Dry time is extended if the film thickness is high. 4. If not overcoated within 4 hours, must be sanded and cleaned, before overcoating. 5. Do not use polyester on the plastic primer.	
	<b>Package size</b>	1L	












## A834 - Plastic Primer



	<b>Product type</b>	A834 is light grey coloured 1K PP resin primer which is designed for plastic parts.	
	<b>Features</b>	<p>▲Drying performance: air dry</p> <p>▲Adaptation: apply to all types of external plastic parts on cars.</p> <p>▲Adhesiveness: Promotes adhesion on plastic.</p> <p>▲Filling ability: balanced filling and covering.</p>	
	<b>Mixing ratio</b>	A834: A810-A811-A812=1:20%	
	<b>Spray gun set-up</b>	<p>1.5-1.7 mm (suction type gun) - 1.5-1.7 bar at the air inlet</p> <p>1.4-1.6 mm (gravity type gun) - 1.4-1.6 bar at the air inlet</p>	
	<b>Spraying skill</b>	Apply 1-2 coats, uniformity on plastic.	
	<b>Flash-off time</b>	5-8 minutes between coats	
	<b>Drying time</b>	Air dry 20°C / 70°F	Wait 10-15 minutes before next process
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.	
	<b>Instructions</b>	<ol style="list-style-type: none"> <li>1. Stir thoroughly before use.</li> <li>2. The suggested temperature in baking room is 15~30°C.</li> <li>3. Dry time is extended if the film thickness is high.</li> <li>4. If not overcoated within 4 hours, it must be sanded and cleaned, before overcoating.</li> <li>5. Do not use polyester on the plastic primer.</li> </ol>	
	<b>Package size</b>	1L	










## A835 - Plastic cover primer



	<b>Product type</b>	A835 is white coloured 1K PP resin primer which is designed for plastic parts.	
	<b>Features</b>	<ul style="list-style-type: none"> <li>▲ Drying performance: air dry</li> <li>▲ Adaptation: apply to all types of external plastic parts on cars.</li> <li>▲ Adhesiveness: Promotes adhesion on plastic.</li> <li>▲ Filling ability: good filling and covering.</li> </ul>	
	<b>Mixing ratio</b>	A835: A810-A811-A812=1:20%	
	<b>Spray gun set-up</b>	1.5-1.7 mm (suction type gun) - 1.5-1.7 bar at the air inlet 1.4-1.6 mm (gravity type) - 1.4-1.6 bar at the air inlet	
	<b>Spraying skill</b>	Apply 1-2 coats, uniformity on plastic.	
	<b>Flash-off time</b>	5-8 minutes between coats	
	<b>Drying time</b>	Air dry 20°C / 70°F	Wait 10-15 minutes to next process
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.	
	<b>Instructions</b>	1. Stir product thoroughly before mixing. 2. The suggested temperature in baking room is 15~30°C 3. Dry time is extended if the film thickness is high. 4. If not overcoated within 4 hours, must be sanded and cleaned, before overcoating. 5. Do not use polyester on the plastic primer.	
	<b>Package size</b>	1L	










## A836 -Transparent Plastic Primer



	<b>Product type</b>	A836 is transparent coloured 1K PP resin primer which is designed for plastic parts.	
	<b>Features</b>	<p>▲ Drying: air dry</p> <p>▲ Adaptation: apply to all types of external plastic parts on cars.</p> <p>▲ Adhesiveness: effective promote the adhesion on plastic</p>	
	<b>Mixing ratio</b>	Stir thoroughly before use.	
	<b>Spray gun set-up</b>	<p>1.5-1.7 mm (suction type gun) - 1.5-1.7 bar at the air inlet</p> <p>1.4-1.6 mm (gravity type) - 1.4-1.6 bar at the air inlet</p>	
	<b>Spraying skill</b>	wet on wet 1~2 coats, uniformity on plastic	
	<b>Flash-off time</b>	3-5 minutes between coats	
	<b>Drying time</b>	Air dry 20°C / 70°F	Wait 10-15 minutes before next process.
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.	
	<b>Instructions</b>	<ol style="list-style-type: none"> <li>1. Stir thoroughly before mixing.</li> <li>2. The suggested temperature in baking room is 15~30°C.</li> <li>3. Dry time is extended if the film thickness is high.</li> <li>4. Do not use polyester on the plastic primer.</li> </ol>	
	<b>Package size</b>	1L	













## A831 - Primer Surfacer

	<b>Product type</b>	A831 is 2K acrylic resin primer which is suitable for large area spraying. Should be applied with Hardener A801/A802/A803.		
	<b>Features</b>	<p>▲ Bear mist for long term use, ensure large area spraying.</p> <p>▲ Good filling ability, closure and adhesion on base plate.</p> <p>▲ Perfect sanding and re-spraying property, especially for finishing coat</p>		
	<b>Mixing rate</b>	<p>Primer : Hardener : Reducer = 4:1:20% (weight)</p> <p>Hardener: A801 (Fast dry) / A802 (Standard) / A803 (Slow dry)</p> <p>Reducer: A810 (Fast dry)/A811 (Standard)/A812 (Slow dry)</p>		
	<b>Spray gun set-up</b>	<p>1.5-1.7 mm (suction type gun) - 1.5-1.7 bar at the air inlet</p> <p>1.4-1.6 mm (gravity type gun) - 1.4-1.6 bar at the air inlet</p>		
	<b>Spraying skill</b>	Wet on wet 2-3 layer		
	<b>Flash-off time</b>	<p>Between coats 5 - 8minutes</p> <p>Wait 8-10 minutes before baking</p>		
	<b>Drying time</b>	Force dry	60°C / 140°F	40 minutes
			Grinding/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	10-15 minutes
			Grinding/Polishing	3-4 hours
	<b>Pot life</b>	4 hours at 20°C / 70°F		
		Sand with 400# ~ 600# grit paper after completely drying		
	<b>Instructions</b>	<p>1. Stir thoroughly before mixing.</p> <p>2. It requires more drying time, if the film thickness is too thick.</p>		
	<b>Package size</b>	4KG		











## Super Curing Primer A8831



	<b>Product type</b>	A8831 is grey coloured 2K acrylic resin very fast dry primer. To be applied with hardener A8809. Can be applied to small to medium area repairs.		
	<b>Features</b>	<ul style="list-style-type: none"> <li>▲ Good filling, excellent sanding properties.</li> <li>▲ Very fast dry.</li> <li>▲ Can be mixed with 5% S series 2K to adjust colour.</li> </ul>		
	<b>Mixing ratio</b>	Primer : Hardener : Reducer = 3:1:25% (volume), 5:1:15% (weight) Hardener : A8809 Reducer : A810 (Fast) / A811 (Standard) / A812 (slow)		
	<b>Spray gun set-up</b>	1.4-1.5 mm (suction gun) - 1.6-1.8 bar at the air inlet 1.3-1.4 mm (gravity gun) - 1.6-1.8 bar at the air inlet		
	<b>Application</b>	Wet on wet 2-3 layer		
	<b>Flash-off time</b>	No flash-off between coats No flash-off before baking		
	<b>Drying time</b>	Force dry	60°C / 140°F	10-12 minutes
			Sand/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	3-5 minutes
			Sand/Polishing	60 minutes
	<b>Pot life</b>	1 hour at 20°C / 70°F		
	<b>Next process</b>	Sand with 400# ~ 800# grit paper after completely dry.		
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.		
	<b>Instructions</b>	1. The suggested spray temperature is 15-30°C / 60-90°F. 2. The drying time will be longer if S series colour is used to adjust colour. 3. A801/A802 can be used at the same ratio as A8809 in extremely high temperature.		
	<b>Package size</b>	5kg		

## A8830/8832 Ultra-Cure gray primer













	<b>Product type</b>	A8830/8832 is ultra-curable, two-component, greyscale adjustable intermediate primer. It is used with A8809 ultra hardener or A801 / A802 / A803 general hardener and A810 / A811 / A812 Reducer. There are three kinds of colours: A8830 (white) / A8830&A8832 (gray) / A8832 (black), which perfectly match with Onwaves water-based paint and Onwings solvent base paint.		
	<b>Features</b>	▲ The degree of gray can be adjusted: It can be adjusted according to the requirements of the formula, reducing the amount of top color paint and improving work efficiency; ▲ Super curing: use with A801 / A802 / A803 general curing agent, normal drying speed, better balance performance can be obtained; With the use of A8809 Super Cured Hardener, it can instantly form a high build film and dry quickly to meet quick repair needs. ▲ Other properties: good filler, excellent anti-corrosion properties, can be used directly on metal substrates.		
		<b>A8830 White (weight)</b>	<b>A8832 Black (weight)</b>	<b>Color result</b>
	<b>Gray 1</b>	100	0	White, light color
	<b>Gray 2</b>	85	15	Light grey
	<b>Gray 3</b>	55	45	Medium gray
	<b>Gray 4</b>	20	80	Dark gray
	<b>Gray 5</b>	0	100	Black
	<b>Mixing rate</b>	Primer : Hardener : Reducer =3:1:25% (volume) Primer : Hardener : Reducer = 5:1:15% (weight) Hardner: A8809/A801/A802/A803 Reducer: A810 (Fast dry ) /A811 (Standard)		
	<b>Spray gun set-up</b>	Suction type: Caliber: 1.4-1.5 mm - Air pressure 1.6-1.8 bar Gravity type: Caliber: 1.3-1.4 mm - Air pressure 1.6-1.8 bar		
	<b>Spraying skill</b>	2-3 coats		
	<b>Flash-off time</b>	After drying to the matte state, the following spraying process can be performed		
	<b>Drying time</b>	<b>Environmental situation</b>	<b>Hardener A801 / A802 / A803</b>	<b>Hardener ultra A8809</b>
		Powder drying 20 ° C	6 minutes	4 minutes
		Complete drying 20 ° C	30 ~ 40 minutes	20 ~ 30 minutes
		Bake 60 ° C	20 minutes	10 minutes
	<b>Pot life</b>	A8809 A801 A802 A803	30 minutes 40 minutes 60 minutes 90 minutes	
	<b>Next process</b>	Sand with 400 # ~ 600 # sandpaper after fully drying.		
	<b>Instructions</b>	1. Suggested baking room temperature is 15 ~ 30 ° C. 2. Drying time will be longer if primer is used to adjust gray color. 3. Avoid wasting surface primer. 4. Use hardener A801 / A803 in the same ratio as A8809 when the temperature is higher. 5. Flush spray gun after application.		
	<b>Package size</b>	5KG		






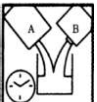




## A8833 - Ultra-Cure Primer












	<b>Product type</b>	A8833 is grey coloured 2K acrylic resin fast dry primer. To be applied with hardener A801/A802/A803. Can be applied to small area repairs and overall car spray.		
	<b>Features</b>	<ul style="list-style-type: none"> <li>▲ Good filling, excellent sanding properties.</li> <li>▲ Fast dry.</li> <li>▲ Can be mixed with 5% S series 2K to adjust colour.</li> </ul>		
	<b>Mixing rate</b>	Primer : Hardener : Reducer = 3:1:50% (volume), 5:1:30% (weight) Hardener : A801 (Fast dry) / A802 (Standard) Reducer : A810 (Fast dry) / A811 (Standard)		
	<b>Spray gun set-up</b>	1.5-1.7 mm (suction gun) - 1.5-1.7 bar at the air inlet 1.4-1.6 mm (gravity gun) - 1.4-1.6 bar at the air inlet		
	<b>Application</b>	2-3 coats		
	<b>Flash-off time</b>	Between coats 2-3 minutes Wait 5-8 minutes before baking		
	<b>Drying time</b>	Force dry	60°C / 140°F	20 minutes
			Sand/Polishing	Cool down
		Air dry 20°C / 70°F	Dust free	5-8 minutes
			Sand/Polishing	90 minutes
	<b>Pot life</b>	1 hour at 20°C / 70°F		
	<b>Next process</b>	Sand with 400# ~ 600# grit paper after completely dry		
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.		
	<b>Instructions</b>	1. The application temperature should be controlled between 15-30°C / 60-90°F. 2. The drying time will be longer if S series 2K is used to adjust the colour or with excessive film builds. 3. Wash spray gun after application.		
	<b>Package size</b>	5KG		

## A846 Wet on Wet Primer

	<b>Product type</b>	A846 is a 2K wet on wet primer. Mixed with hardeners A801/A802/A803 and reducers A810/A811/A812, to be used with Onwings or Onwaves repair systems.	
	<b>Features</b>	▲ Sand Free. Wet on Wet ▲ Excellent Adhesion. ▲ Anti-corrosion and anti stone-chipping properties	
	<b>Mixing ratio</b>	Primer: Hardener: Reducer = 5:1:30% (weight) Hardener: A801 (Fast dry ) /A802 (Standard)/A803 (Slow) Reducer: A810 (Fast dry ) /A811 (Standard) / A812 (Slow)	
	<b>Spray gun set-up</b>	1.4-1.5 mm (suction gun) - 1.6-1.8 bar at the air inlet 1.3-1.4 mm (gravity gun) - 1.6-1.8 bar at the air inlet	
	<b>Spraying skill</b>	1-1.5 Coats	
	<b>Flash-off time</b>	Between coats 2-3 minutes Wait 15 minutes before baking	
	<b>Pot life</b>	A801	40 minutes
		A802	60 minutes
		A803	90 minutes
	<b>Next process</b>	Overcoat with Onwings base, 2K or Onwaves colour system after flash time.	
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.	
	<b>Dry film thickness</b>	15~20 um	
	<b>Package size</b>	5KG	







## A870 - Super Curing Primer



	<b>Product type</b>	A870 is 2K acrylic polyol modified alkyd resin primer, applied with Hardener A807.			
	<b>Features</b>	<ul style="list-style-type: none"> <li>▲ Air dry without baking.</li> <li>▲ Technical innovation of super curing, suits middle and high-end car models.</li> </ul>			
	<b>Mixing rate</b>	Primer : Hardener : Reducer = 5:1:30% Hardener: A807 Reducer: A810 (Fast dry ) /A811(Standard)			
	<b>Spray gun set-up</b>	HVLP 1.3-1.5 mm (gravity type gun) - 1.3-1.5 bar at the air inlet			
 	<b>Application</b>	Wet on wet 1.5 layers, no flash-off between coats, thickness 25-30um			
		Wet on wet 2 layers, 1-2 minutes between coats, thickness 35-40um			
		Wet on wet 2.5 layers, 2-3 minutes between coats, thickness 50-55um			
	<b>Drying time</b>	1.5 layers	15°C	Dust free 4-6 minutes	Polishing 40-50 minutes
			20°C/70°F	Dust free 2-3 minutes	Polishing 20-30 minutes
		2 layers	15°C	Dust free 5-7 minutes	Polishing 45-55 minutes
			20°C/ 70°F	Dust free 3-4 minutes	Polishing 25-35 minutes
		2.5 layers	15°C	Dust free 6-8 minutes	Polishing 50-60 minutes
			20°C/70°F	Dust free 4-5 minutes	Polishing 30-35 minutes
	<b>Pot life</b>	30 minutes at 20°C / 70°F			
	<b>Instructions</b>	1. Keep seal in time after open, shade conservation of hardener. 2. Spray 1.5 layers on small area, at least 2 layers on large area repair. 3. Please be sure to use infrared forced dry for 12-15 minutes in defect, then grind it with 800 # or finer sand paper, respray finally. 4. The drying time will be longer if the temperature is lower and film thickness.			
	<b>Package size</b>	5KG			







## A825 - Plastic Softener



	<b>Product type</b>	2K additive, designed for thermo plastic painting
	<b>Purpose</b>	Developed for thermo plastic, PUR and polyfoam plastic parts to prevent cracking on base plate. Used with 2k surfacers, 2K Solid colour and 2K Clearcoats.
	<b>Mixing ratio</b>	2K Primer: A825=2:1 Single stage: A825=1:20~50% 2K Clear coat: A825=1:20~50%
	<b>Application</b>	Refer to the TDS of base material.
	<b>Instructions</b>	<ol style="list-style-type: none"> <li>1. A825 Elastic additive should only be mixed with 2K products.</li> <li>2. A825 should be applied with 50% Hardener.</li> <li>3. The drying and flash-off will become longer after adding A825 elastic additive.</li> <li>4. Avoid baking at 60 °C to avoid bubbles.</li> </ol>
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.
	<b>Package size</b>	1L







## A828 - Degreaser



	<b>Product type</b>	Degreaser
	<b>Purpose</b>	Remove oil contamination and silicon to avoid the film defects
	<b>Mixing ratio</b>	No need to mix, ready for use
	<b>Cleaning guide</b>	<ol style="list-style-type: none"> <li>1. Apply with spray bottle or clean nonwovens cloth wetted with A828.</li> <li>2. Wipe dry with clean nonwoven cloth before application.</li> <li>3. Do not allow A828 to air dry on panel.</li> </ol>
	<b>Instructions</b>	<ol style="list-style-type: none"> <li>1. Be sure panel is completely dry before overcoating.</li> <li>2. Heavily solid panels may need to be degreased twice.</li> </ol>
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.
	<b>Package size</b>	5L








## A820 - Anti Static Cleaner



	<b>Product type</b>	Designed for surface cleaning and anti static treatment of plastic parts.
	<b>Purpose</b>	Remove the grease, release agent, lubricant and other contamination on plastic, avoiding building up static electricity, to strengthen the adhesion and prevent film defects.
	<b>Mixing ratio</b>	No need to mix, ready for use
	<b>Cleaning guide</b>	<ol style="list-style-type: none"> <li>1. Apply with spray bottle or clean nonwovens cloth wetted with A820</li> <li>2. Wipe dry with clean nonwoven cloth before degreaser dry's.</li> <li>3. Do not allow A820 to air dry on panel.</li> </ol>
	<b>Instructions</b>	<ol style="list-style-type: none"> <li>1. Be sure panel is completely dry before overcoating.</li> <li>2. Parts with heavy static or heavily soiled may need to be treated twice.</li> </ol>
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.
	<b>Package size</b>	1L








## A350 - Fade-Out Reducer



	<b>Product type</b>	Fade-Out reducer
	<b>Purpose</b>	In the partial paint repair, it dissolves the coarse particles between the new and old paint interface positions, so that the new and old paint films will be integrated, making the repair effect more perfect.
	<b>Mixing ratio</b>	No need to mix, ready for use
	<b>Spray gun set-up</b>	Clean spray gun
	<b>Application</b>	The fade-out area should be sprayed immediately with A350 in two steps: 1. Spray the fade-out area with a mist of paint mixed with 50% A350. 2. Immediately thereafter (10-15 seconds), respray with pure A350.
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.
	<b>Attention</b>	<b>A350 can not be used as Reducer.</b>
	<b>Package size</b>	5L

## A829 - Fish-Eye Eliminator










	<b>Product type</b>	Additive agent for finish coat
	<b>Purpose</b>	Prevention for film defects, for example: fish-eye, pit and contraction cavity and so on.
	<b>Mixing rate</b>	Add 8~40g A829 to each liter of base coat at spraying viscosity
	<b>Spray tool</b>	Spray gun
	<b>Application guide</b>	See TDS of base material.
	<b>Attention</b>	<ol style="list-style-type: none"> <li>1. Stir thoroughly.</li> <li>2. First coat should be thin.</li> <li>3. It may cause spraying difficulty.</li> </ol>
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.
	<b>Package size</b>	1L









## A822 - Fast Dry Agent



	<b>Product type</b>	Additive fast dry agent for 2K series
	<b>Purpose</b>	Increase the speed of drying without loss of quality
	<b>Mixing ratio</b>	2K paint : A822 = 1: 1~10%
	<b>Equipment</b>	Spray gun
	<b>Application</b>	Refer to TDS of base material
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.
	<b>Attention</b>	<ol style="list-style-type: none"> <li>1. Stir thoroughly.</li> <li>2. Adding more than 10% volume of A822 will cause loss of gloss.</li> </ol>
	<b>Package size</b>	1L








## S777 - Gloss Reducer



	<b>Product type</b>	Additive Matting agent for 2K series
	<b>Purpose</b>	Reduce the gloss of topcoats to semi matt or fully matt finish.
	<b>Mixing ratio Matt</b>	<p><b>Stir S777 thoroughly before adding to base material.</b></p> <p>A861 Clear coat: S777 Gloss reducer 1: 30-70%</p> <p>138 clear coat: S777 Gloss reducer 1: 35- 65%</p> <p>S series 2k colour: S777 Gloss reducer 1: 46-65%</p> <p>(Note coverage is extremely reduced recommend COB).</p> <p>Be sure to mix thoroughly before hardener and reducer are added.</p> <p>See base material TDS for activation ratios.</p>
	<b>Application guide</b>	Refer to construction of 2K topcoat
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.
	<b>Attention</b>	<ol style="list-style-type: none"> <li>1. Stir S777 well before use if let it on stand for more than 15 minutes.</li> <li>2. Mix S777 with required product to achieve desired gloss, with hardener &amp; reducer to RFU when ready to spray. Restir if mixture sits for more than 15 minutes.</li> <li>3. S777 will reduce hiding power.</li> <li>4. The end gloss level will be influenced by several factors. Fast hardeners, reducers, short flash times, force drying, high film builds and overloading will result in higher gloss. Slower hardeners, Reducers, long flash times &amp; air drying will result in lower gloss.</li> <li>5. Special attention on large panels e.g. Bonnets &amp; turrets the overlap of the second coat should not follow the overlap of the first coat.</li> <li>6. It is very important to have very uniform overlaps &amp; that the film is sufficiently wet. If the paint film is dry, there is a risk of mottling owing to uneven flash off or unabsorbed overspray.</li> </ol>
	<b>Package size</b>	1L/ 3.5L












## S376 - Transparent Additive

	<b>Product type</b>	Additive agent for S series
	<b>Purpose</b>	Improve the gloss and levelling properties
	<b>Mixing rate</b>	S series colour: S376 = 1:0~100% (Adjust the addition amount according to the gloss needs)
	<b>Spray tool</b>	Spray gun
	<b>Application guide</b>	Refer to TDS of base material
	<b>Safety</b>	It is strongly recommended to use appropriate personal protection equipment during application to avoid respiratory, skin and eye irritation.
	<b>Attention</b>	1. Applied with 50% hardener according to volume. 2. More S376, less coverage.
	<b>Package size</b>	3.5L










## Body Filler AK27



	<b>Product type</b>	Unsaturated polyester resin, organic peroxides as the hardener
	<b>Purpose</b>	Filling defections on base plate, form smooth surface
	<b>Mixing rate</b>	Putty: Hardener = 1:2-3% (weight)
	<b>Construction method</b>	Scratch coating
	<b>Construction process</b>	<ol style="list-style-type: none"> <li>1. Take out correct quantity putty and hardener, then mix thoroughly.</li> <li>2. Spray a thin coat on damaged area.</li> <li>3. Spray thin coats on edge of damaged area.</li> <li>4. Repeatedly spraying in center of damaged area.</li> <li>5. Spray thin coats on whole damaged area.</li> </ol>
	<b>Drying method</b>	Drying in air, or fast drying with infrared ray.
	<b>Drying time</b>	Polishing after 10-15 minutes
	<b>Pot life</b>	2-6 minutes after mixing
	<b>Attention</b>	<ol style="list-style-type: none"> <li>1. The temperature of the body panel should under 50°C when fast drying with infrared ray.</li> <li>2. Control the thickness of flim.</li> <li>3. Incorrect proportion of hardener may cause paint defection.</li> </ol>
	<b>Package size</b>	2KG/4KG

## Primum Body Filler AK58



	<b>Product type</b>	Unsaturated polyester resin, organic peroxides as the hardener
	<b>Purpose</b>	Filling defections on base plate, form smooth surface
	<b>Mixing rate</b>	Putty: Hardener = 1:2-3% (weight)
	<b>Construction method</b>	Scratch coating
	<b>Construction process</b>	<ol style="list-style-type: none"> <li>1. Take out correct quantity putty and hardener, then mix thoroughly.</li> <li>2. Spray a thin coat on damaged area.</li> <li>3. Spray thin coats on edge of damaged area .</li> <li>4. Repeatedly spraying in center of damaged area.</li> <li>5. Spray thin coats on whole damaged area.</li> </ol>
	<b>Drying method</b>	Drying in air, or fast drying with infrared ray.
	<b>Drying time</b>	Polishing after 15-30 minutes
	<b>Pot life</b>	3-8 minutes after mixing
	<b>Attention</b>	<ol style="list-style-type: none"> <li>1. If the amount of curing agent added is more than 4%, it will reduce the adhesion of the paint and make the surface not dry; less than 1% or low humidity will delay the curing, incomplete drying, and cause the surface to become sticky and not dry;</li> <li>2. The surface to be treated must be dry, dust-free, rust-proof and polished (slightly rough);</li> <li>3. After drying, it can withstand high temperature up to 100 °C.</li> </ol>
	<b>Package size</b>	2KG



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