Toyota Hydrobase Application

Basecoat and Fade-out process

1, CLEANING



After sanding the surfacer clean the fade-out area with Toyota Hydro Cleaner Dry thoroughly.

2, SANDING



sanded carefully with P1200-P1500. adhesion of the basecoat.

3, FADE-OUT PREP



Sand the remaining 80% of The part with a Grey-Pad or P3000.

Alternatively, sand damp with Trizact or similar abrasive.

4, RE-CLEANING



Re-clean with **Toyota** Hydro Cleaner Remove surface dust from all

5. MASKING

The vehicle can now be masked And prepared for the spray booth. Paper or plastic masking can Be utilised in accordance with Local regulations.











6, APLICATION



After cleaning, blowing and surface wiping. Apply **Toyota Hydro Basecoat** to the primed or sanded areas



7, APPLICATION



Apply Toyota Hydro Basecoat to the leading edge of the part in an outward arcing motion. Ensure sufficient coverage to fill sanding scratches





Add mixed Hydro Fade-Out To the remaining color & stir. with an increasing distance

9, DRYING



Dry the **Toyota Hydro** Basecoat until matt. The surface can be carefully Tack-wiped if necessary.

10, CLEAR COAT



Apply Toyota HS Clear or Toyota HS Clear Fast to















Toyota Hydro Basecoat & 2K HS Clears

Mixing and Application

TOYOTA HYDRO BASECOAT HYDRO THINNER

USE ON TOYOTA PRIMERS OEM PAINTWORK Warranty Process



Add 5-10% **Hydro Thinner**



Ready to use

@ 22-26 sec DIN4



Gravity Gun SATA WSB GTI-W



1 x light coat 1 x covering coat 1 x effect coat as a 1-visit process



No flash off needed between coats



Flash off or blow until matt



Overcoat with **HS Clear or HS Clear Fast**



Refer to TDS and **MSDS**

TOYOTA **HYDRO BASECOAT FADE-OUT**

USE ON FADE OUT ZONES Warranty Process



Mix 1:1 with **Hydro Basecoat** Colour (Thinned)



Ready to use @ 22-26 sec DIN4



Gravity Gun 1.3 - 1.4 mm



Apply 1 light coat on fade-out-zone @ 0.8 - 1.5 bar



No flash off needed between coats



Flash off or blow **Until matt**



Overcoat with **HS Clear or HS Clear Fast**



Refer to TDS and MSDS

TOYOTA **HS CLEAR**

USE ON HYDRO BASECOAT OLD PAINTWORK Warranty Process



Mix 2:1 with 2K HS Hardener 2030 OR 2540



Ready to spray



Gravity Gun 1.3 - 1.4 mm



Apply 1 x grip-coat 1 x wet coat



No flash off 1 visit application



Dry for 30 40 mins @60°C



Refer to TDS and **MSDS**

TOYOTA HS CLEAR FAST

USE ON HYDRO BASECOAT OLD PAINTWORK Warranty Process



Mix 2:1 with 2K HS Hardener 2030 or 2540



Ready to spray



Gravity Gun 1.3 - 1.4 mm



Apply 1 x Closed Coat 1 x wet coat



No flash off 1 visit application



Dry for 25-30 mins @60°C



Refer to TDS and **MSDS**

2K HS Clear & 2K HS Clear Fast can be made "Flexible" with 2K Additive and, "Satin" or "Matt" with 2K Matting Clear





Toyota Hydrobase Application

Basecoat and Fade-out process

1, INSPECTION

Check the part for damage or defects

2, CLEANING

As the part is NOT
Pre-Primed clean
with Toyota Plastic Cleaner
to remove release agent
Clean at least 2-3 times

3, De-Gassing

The raw part needs to be De-gassed or heated to 60°C for 60 mins. This process will drive oils, grease and wax to the surface ready for removal

4, RE-CLEANING

Re-clean with **Toyota Plastic Cleaner** and a grey

Scuff pad. Dry thoroughly.

position on a support

stand

5, PRIMING

Prime with **Toyota Plastic Adhesion Promotor.** Allow to dry for 10 mins @ 20°C. Overcoat with **Toyota 2K Universal Primer** with 15% **2K Plastic Additive** dry for 30 mins @60°C













6, SANDING

Sand the dried parts dry with P400-500 Take care not to sand through. Structure can be removed





Blow and re-clean with Toyota Hydro Cleaner and position part on a support stand



Apply **Toyota Hydro Basecoat** to the parts including inner edges
Dry until matt



9, CLEAR COATING

Apply **Toyota 2K HS Clear Fast** containing **Toyota 2K Plastic Additive**. Dry for 30-40 mins @60°C



10, FITTING PARTS

Dried parts can be fitted after cooling.
Do not pressure wash for x 6 weeks







Toyota Mixing and Tinting Colors

Color Adjustment

1, ESTIMATE

Identify and record the color of the vehicle at the time of estimate. Be sure to identify Pearl or Effect colors to be enable the recovery of extra extra cost's



2, POLISHING

Polish and area adjacent to the repair zone with an abrasive polish to restore the original color of the vehicle



3, IDENTIFICATION

Identify the variant shade of the vehicle with the color chips and variant fan-deck.

Always perform this check in

Always perform this check in Natural day-light



4, MIXING

Stir the Toyota Mixing Syste for 15 minutes.

Retrieve the relevant color and mix according to the formula. mixing accurately is critical to the end result



5, COLOR TEST

Spray a color test card at the same pressure and distance as used for the vehicle until Covered. Apply Clear Coat and Dry. Check the color in daylight. If the color is not blend-able adjust it.



6, ADJUSTMENT

If you choose to adjust the original color shade use ONLY the mixing toners contained in the original formula to avoid color-change in



7, COLOR DIRECTION

Using the spray-out and the mixing toner guide identify the color direction.

Redder Bluer?

Lighter



8, TINTING

mix as an master sample.

Always adjust on the Scale.

Record the quantities used.

wet samples can be



9, RE-TESTING

When the wet sample looks close enough to blend spray adjusted samples as performed earlier.
Check in daylight when dry



10, RECORD KEEPING

Color cards should be kept for future reference. It is good practice to produce a hand sprayed library of variant colors







Toyota Hydro Basecoat & 2K HS Clears

Mixing and Application

TOYOTA HYDRO BASECOAT HYDRO THINNER

USE ON TOYOTA PRIMERS OEM PAINTWORK Warranty Process



Add 5-10% **Hydro Thinner**



Ready to use

@ 22-26 sec DIN4

Gravity Gun SATA WSB GTI-W



1 x light coat 1 x covering coat 1 x effect coat as a 1-visit process





No flash off needed between coats



Flash off or blow until matt



Overcoat with **HS Clear or HS Clear Fast**



Refer to TDS and **MSDS**

TOYOTA **HYDRO BASECOAT FADE-OUT**

USE ON FADE OUT ZONES Warranty Process



Mix 1:1 with **Hydro Basecoat** Colour (Thinned)



Ready to use @ 22-26 sec DIN4



Gravity Gun 1.3 - 1.4 mm



Apply 1 light coat on fade-out-zone @ 0.8 - 1.5 bar



No flash off needed between coats



Flash off or blow **Until matt**



Overcoat with **HS Clear or HS Clear Fast**



Refer to TDS and **MSDS**

TOYOTA **HS CLEAR**

USE ON HYDRO BASECOAT OLD PAINTWORK Warranty Process



Mix 2:1 with 2K HS Hardener 2030 OR 2540



Ready to spray



Gravity Gun 1.3 - 1.4 mm



Apply 1 x grip-coat 1 x wet coat



No flash off 1 visit application



Dry for 30 40 mins @60°C



Refer to TDS and **MSDS**

TOYOTA HS CLEAR FAST

USE ON HYDRO BASECOAT OLD PAINTWORK Warranty Process



Mix 2:1 with 2K HS Hardener 2030 or 2540



Ready to spray



Gravity Gun 1.3 - 1.4 mm



Apply 1 x Closed Coat 1 x wet coat



No flash off 1 visit application



Dry for 25-30 mins @60°C



Refer to TDS and **MSDS**

2K HS Clear & 2K HS Clear Fast can be made "Flexible" with 2K Additive and, "Satin" or "Matt" with 2K Matting Clear





Toyota 1K & 2K Primers / Fillers

Mixing and Application

TOYOTA METAL PRIMER + ACTIVATOR

USE ON STEEL ALUMINIUM E-COAT **Warranty Process**



Mix 1:1 with **Primer Activator**



Ready to use

Gravity Gun 1.3 - 1.5 mm



Apply 1-2 Coats





Flash off for 5 mins between



Flash off for 20-30 min @20°C



Overcoat with **Multi Surfacer or HS Repair Filler**



Refer to TDS and MSDS

TOYOTA MULTI SURFACER

USE ON NEW PARTS SANDED OR WET-ON-WET Warranty Process



Mix 3:1 with 2K HS Hardener 1525 or 2030



Add 20% **2K Thinner**



Gravity Gun 1.3 - 1.4 mm



Apply 1 light coat 1 closed coat coats



No flash off needed between



Flash off for 20-30 min @20°C



Overcoat with **Hydro Basecoat** or 2K HS Topcoat



Refer to TDS and MSDS

TOYOTA HS REPAIR FILLER

Light Grey & Dark Grey USE ON

REAIR ZONES OLD PAINTWORK Warranty Process



Mix 4:1 with 2K HS Hardener 1525 or 2030





Add 0-10% (max) **Gravity Gun** 2K Thinner 1.5 - 1.8 mm



Apply 2-4 Coats



Flash off for

5 mins between coats - 10 min before bake



Dry for 30 mins @60°C



Sand then overcoat with **Hydro Basecoat** or 2K HS Topcoat



Refer to TDS and MSDS

TOYOTA 1K PRIMER FILLER

USE ON RUB-THROUGHS



Mix with 50% 2K Thinner



Ready to spray @ 18-20 sec DIN4



Gravity Gun 1.5 - 1.7 mm



Apply 1-2 Coats



Flash off for 5 mins between coats



Dry for 30 mins @20°C



Overcoat with **Hydro Basecoat** or 2K HS Topcoat



Refer to TDS and **MSDS**

2K Multi Surfacer and 2K HS Repair Filler can be Tinted with up-to 10% 2K HS Colour





Toyota Plastic Painting Process

Pre-Painted damaged parts (cosmetic repair)

1, INSPECTION

Identify if the part is structurally damaged to assess the repair process. Minor non-structurally damaged scuffs can be processed as follows



As the part is Pre-Painted, clean with **Toyota Panel Degreaser** to remove road grime and waxes or tar spots

3, SANDING

Sand the area dry with P240 Remove all traces of "plastic-Burs" or excess plastic from Around the scuffed area. Re-Clean with **Toyota Plastic Cleaner**

4, ADHESION STOPPER

Apply Toyota Adhesion
Promotor and dry for 10-20 mins
Mix and apply Toyota Multi
Surface Stopper to fill the scuffs
Allow to dry for 20-30 mins

5, SANDING

Sand the dried Stopper With P240-320 and abrade Surrounding areas with a red Scuff pad.













6, CLEANING

Clean the exposed plastic with **Toyota Plastic Cleaner** Dry thoroughly, blow and tack-wipe



Apply **Toyota Plastic Adhesion Promotor** to the Bare plastic area.
Allow to dry for 10-mins @20°C



Add 15% Toyota Plastic
Additive to Toyota 2K HS
Repair Filler. Then mix 2:1 with
Toyota 2K HS Hardener and
thin as required. Apply 2-3
coats to the repair zone

9, DRYING

Dry for 30-40 min @60°C Or air dry overnight

10, FURTHER WORK

After drying the 2K Filler
Can be sanded ready for
Toyota Hydro Basecoat and
Toyota 2K HS Clear
Containing Toyota 2K Plastic















Toyota Plastic Painting Process

Original Pre-Primed Plastic Parts

1, INSPECTION

Check the part for damage or defects

2, CLEANING

As the part is
Pre-Primed clean
with **Toyota Hydro-Cleaner**

3, SANDING

Abrade the part with A grey-scuff pad or Fine sand with P500 dry

4, RE-CLEANING

Re-clean with **Toyota Hydro Cleaner** and
position on a support
stand

5, PRIMING

Prime with Toyota 2K
Multi Surfacer mixed
With 15% Toyota 2K Plastic
Additive
Dry parts 30 min@60°C











6, FURTHER SANDING

Sand the dried parts with P400-500 dry.
Take care not to sand through



Blow and re-clean with Toyota Hydro Cleaner and position part on a support stand

7, FURTHER

CLEANING



Apply **Toyota Hydro Basecoat** to the parts including inner edges
Dry until matt



9, CLEAR COATING

Apply Toyota 2K HS Clear Fast containing Toyota 2K Plastic Additive. Dry for 30-40 mins @60°C



Dried parts can be fitted after cooling.

Do not pressure wash for x 6 weeks















Toyota Plastic Painting Process

Un-Primed Plastic Parts / smooth or structured

1, INSPECTION

Check the part for damage or defects



As the part is NOT
Pre-Primed clean
with **Toyota Plastic Cleaner**to remove release agent
Clean at least 2-3 times

3, De-Gassing

The raw part needs to be De-gassed or heated to 60°C for 60 mins. This process will drive oils, grease and wax to the surface ready for removal

4, RE-CLEANING

Re-clean with **Toyota Plastic Cleaner** and a grey

Scuff pad . Dry thoroughly.

position on a support

stand

5. PRIMING

Prime with Toyota Plastic
Adhesion Promotor. Allow to dry
for 10 mins @ 20°C. Overcoat
with Toyota 2K Universal
Primer with 15% 2K Plastic
Additive dry for 30 mins @60°C













6, SANDING

Sand the dried parts dry with P400-500 Take care not to sand through. Structure can be removed



7, FURTHER CLEANING

Blow and re-clean with Toyota Hydro Cleaner and position part on a support stand



Apply **Toyota Hydro Basecoat** to the parts including inner edges
Dry until matt

APPLICATION

8, COLOR



9, CLEAR COATING

Apply Toyota 2K HS Clear Fast containing Toyota 2K Plastic Additive. Dry for 30-40 mins @60°C



10, FITTING PARTS

Dried parts can be fitted after cooling.

Do not pressure wash for x 6 weeks







Toyota Safety Process

Personal Protective Equipment

Surface Cleaning

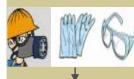














Hazard

Risk









Hazard

Hazard Solvent vapour

Risk

Dust and debris

Hazard Styrene & Peroxide

Risk

Hazard Solvent vapour

Risk

Hazard Isocyanate & vapour **Risk**

Various chemicals

Risk Inhalation Skin contact

Inhalation
Skin contact
Splashes

Eye contact

Skin contact Eye contact

Inhalation

Skin burns Inhalation of vapour Eye irritation

Inhalation Skin contact Splashes Eye contact

Inhalation Skin contact **Splashes** Eye contact

Splashes Eye contact

Personal Precautions

Solvent vapourrespirator

Solvent resistantgloves

Goggles or visor

Personal Precautions

Particulate respirator

Gloves

Goggles or visor

Ear defenders/plugs

Personal **Precautions**

Solvent vapourrespirator

Solvent resistantgloves

Goggles or visor

Personal **Precautions**

Solvent vapourrespirator

Solvent resistantgloves

Goggles or visor

Personal Precautions

Air-fed respirator Solvent resistant-

gloves Spray-suit

Personal **Precautions**

Solvent vapourrespirator

Solvent resistantgloves

Goggles or visor

Ear defenders/plugs





Toyota Surface Preparation

Damaged area Preparation

2K HS Repair Filler

1, INSPECTION

Clean the part with **Toyota Panel Degreaser** Check for damage and stone chips.

Highlight damaged zone with a non-silicone marker pen



2, SANDING



Mask to minimise dirt & dust is sanded with P60 or a paint

3, DENT REMOVAL

case.

Remove dents where possible

Inaccessible areas may need

to be "pulled-out" such as this



High spots should be

The area is then sanded with P80 and edges are feathered





Mix Toyota Multi Surface Stopper with 2-3% Stopper Hardener. Mix well and apply to the damaged area. Avoid layers that exceed 1000 microns









6, SANDING



sanded with P80-180-220. Shape with a block and feather paint edges as



7, FURTHER **CLEANING**



Remove surface dust and protective masking. Re-clean with Toyota Panel **Degreaser** on a lint-free cloth



8. METAL PRIMING



with Toyota Metal Primer mixed 1:1 with Metal Primer Activator. Apply 1-2 light 30 minutes @ 20°C



9, PIMER FILLER



Mix Toyota 2K HS Repair Filler 4:1 with 2K HS **Hardener 1020 +10% 2K Thinner.** Apply 2-3 coats and dry for 30 mins @60°C



10, PRIMER FILLER



Toyota 2K HS Repair Filler Can be tinted with up to 15% 2K HS Mixing Color and then Mixed 4:1 with 2K HS Hardener and 10% 2K Thinner







Toyota Surface Preparation

Original replacement part preparation 2K HS Multi Surfacer

1, INSPECTION

Check the part for damage or defects. Clean the part with Toyota Panel Degreaser on A lint-free cloth such as DuPont Sontara® wipes



Perfect parts need be only sanded with a scuff-pad. n transit and needs sanding



After sanding secure the part On a stand and position in the Spraybooth. Clean with

Toyota Panel Degreaser on A lint-free cloth such as DuPont Sontara® wipes

, METAL PRIMING



Bare metal must be primed with **Toyota Metal Primer** mixed 1:1 with Metal Primer Activator. Apply 1-2 light 30 minutes @ 20°C

5, SURFACER



Prime with Toyota Multi Surfacer mixed 3:1 + 15% **2K Thinner** Apply 2-3 coats as a sanding surfacer to all edges. Allow to flash-off for 10-20 minutes @ 20°C











6, INNER EDGES



With Toyota Hydro Basecoat And over coated with **Toyota** HS Clear Fast

Dry @ 60°C for 30 minutes



7, SANDING



After drying the parts are re-fitted and can be guide coated and sanded with P400-500 drv.

The adjacent door is also prepared for blending





After sanding & cleaning mask the vehicle and position in the spraybooth. Clean with Toyota Hydro Cleaner on on A lint-free cloth such as DuPont Sontara® wipes



9. BASECOAT



Mix Toyota Hydro Basecoat With 10% **Hydro Thinner** Apply ½ Coat followed by 1 covering coat. If required apply a lighter control coat for appearance. Dry matt



10, CLEAR COAT



Mix Toyota HS Clear 2:1 With **2K HS Hardener** 20-30 Drv 30-40 mins @60°C







