



E-VHS Hybrid Clearcoat

Version 24.10

PRODUCT DESCRIPTION

■ Outline

E-VHS Hybrid Clearcoat is a two-component clearcoat utilizing advanced technology to meet optimal appearance and drying times.

E-VHS Hybrid Clearcoat has three major special functions:

- 1) Despite its high solids content, it has low viscosity and excellent flow and leveling properties, making it easy to spray.
- 2) A fast-drying product(15 min at 60°C) with a high-gloss and superb finish
- 3) Highly resistant to paint defects, including solvent popping and pinholes

It is suited for conventional vehicle and electric vehicle repairs and can be applied from spot repair to overall repair.

■ Suitable Substrates

HiQ basecoat colors(metallic/solid/pearl)

Bodyian basecoat colors(metallic/solid/pearl)

WATER Q waterbased system(metallic/solid/pearl)

OEM finishes

Thoroughly dried two-component coats(urethane, epoxy, etc.)

■ Product Configuration

Product Name	Pack(ℓ)	Contents(ℓ)	Storage
E-VHS Hybrid Clearcoat	4.0	4.0	24 months
E-VHS Hybrid Clearcoat Hardener	1.0	1.0	12 months

* Standard temperature of storage is 20°C.

■ Mixing Viscosity

15~17 sec. Viscosity(A+B) Ford Cup #4 at 77°F(25°C)

■ Pot Life

2 hours at 77°F(25°C) after mixing

APPLICATION GUIDE

■ Use

Surface
Preparation



Apply clearcoat after applying basecoat and wiping off the dust in the fully-dried condition.

Mixing
Ratio



Product Name	Mixing Ratio
E-VHS Hybrid Clearcoat	2
E-VHS Hybrid Clearcoat Hardener	1

* Mix by volume.

Spray
Condition



1.8~2.5 bar
1.5~2 wet coats keeping 15~20cm from the surface
Fluid tip : 1.3~1.4mm, D.F.T.=50~60 μ m



Flash time : 5~10 min
Set time : 5~10 min

Protective
Equipment



Use fresh air mask or charcoal respirator to avoid inhaling or being exposed to fumes.

■ Drying Times

	Temperature Time		Temperature Time		Remark
Time to dust free	25°C	50~60 min			
Time to polish	25°C	4~5 hrs	60°C	15~20 min	
Time to handle	25°C	4~5 hrs	60°C	20 min	after cooling

(*) If coats are thicker, the drying schedule will be delayed.

ADDITIONAL INFORMATION

■ Recoatability

- 1) Recoatable time : 24 hours at ambient temperature after force dry
- 2) Sand and wipe off the dust with DR-180 before recoating.



Dry sand P800



Wet sand P400 - P500

■ Blending



Product : HiQ Blending Reducer (DR-600)

Spray pressure : 2 bar

Number of coats : 1~2 coats

Procedure : 1) Apply E-VHS Hybrid Clearcoat

2) On the second application, apply wider than the first application area.

3) Dilute E-VHS Hybrid Clearcoat with DR-600 by the portion of 1:1 and apply once wider than the previous application area.

4) Melt the edge of the previous coat using DR-600.

■ VOC Content

VOC content of 420g/liter

■ Notice

1. For 2K products, short pot life, delayed drying time or unreactive substance can occur depending on hardener volume. Thus please mix base(A) and hardener(B) according to the proper mixing ratio.
2. Stir thoroughly before use.
3. Avoid direct sunlight during delivery, storage and handling. Store in a cool, dry dark place under room temperature(5°C-35°C).
4. Keep container tightly closed and store upright. When spilled, absorb contents with sand.
5. During application(including touch-up application), color difference may occur depending on mixing ratio, painting tools and application method. It may occur in same color product and same LOT No.
6. Please check whether color difference occurred or not. If possible, apply the same LOT No. product in consistent application method.
7. Putty marks might appear when you directly apply over the lacquer coating. As time goes by, it can peel off.
8. Completely eliminate the moisture of spray equipment before use.
Cleanse immediately after application not to have any leftover on spray equipment.
9. Suitable condition for application and hardening is 10°C or above.
10. Surface temperature must be at or above 3°C to avoid moisture condensation.
11. Do not mix with other paint products.
12. Proceed a test application before applying on a precedent or an old paint film
(check adhesion, color spread and transparency).
13. Please refer to technical data sheet before system application(primer, midcoat and topcoat).
14. Please do not apply paint above 85% RH or below 5°C because it may influence physical properties.
15. Contents must not flow into drain, river and soil.
16. Hardener must be stored under room temperature, avoid direct sunlight and keep away from humidity.
17. To prevent environmental pollution, dispose contents after complete use and dispose the residue through waste disposal company authorized by the ministry of environment.
18. Beware of ingestion, inhalation and contact of animals and plants.
19. Use masking tape, covering tape, vinyl or newspapers to cover areas that should not be painted.

■ Health and Safety

- 1. Be well-informed of MSDS before use.**
- 2. Keep out of the reach of infants and children. Do not apply a product to baby products and food containers.**
- 3. Do not use a product for any other uses. (Sniffing is prohibited. Do not use as a fuel.)**
- 4. If on skin or eye, wash thoroughly with running water and get a medical treatment.**
- 5. Do not apply a product in an enclosed area.**
In order to prevent suffocation during application and drying, use power blower to keep the area fully ventilated. Workers must wear gas mask and safety gears all the time.
- 6. Contents include organic solvents and can cause health problems such as headache, dizziness and dermatitis.**
Do not ingest or inhale the product and avoid skin contact.
Wear safety glasses, coveralls and latex gloves when mixing and applying.
- 7. Keep away from fire and heat during application or storage because it is flammable and has risk of fire.**
Beware of spark from impact, droppage and friction while handling.
- 8. Storing a product with combustible substances such as stained clothes or paper may cause fire by spontaneous ignition. Thus do not pile products with combustible substances.**
Keep it in a non-flammable container filled with water, then put a lid on and dispose it.
- 9. Please contact our customer service or refer to GHS-MSDS and technical data on the website for further details.**

This data sheet is based on the test results and experiential bases of NOROO but might vary with the actual working environment and applying condition. This data is the intellectual property of NOROO Paint thus copying and distribution without permission are strictly prohibited. For more information, please contact the technical team or refer to our homepage. (<http://www.autorefinishes.com>)