



# HiQ Matt Clear TC-3100MC

Version 1.0

## PRODUCT DESCRIPTION

### ■ Outline

HiQ Matt Clear (TC-3100MC) is an acrylic urethane clearcoat which is applicable to a matt finish such as the underbody of a vehicle.

TC-3100MC is a non-gloss type clearcoat and suitable for plastic bumper. It offers excellent matt finish and various gloss level.

### ■ Suitable Substrates

HiQ Basecoat

OEM Finishes

Fully-hardened two-component clearcoat (urethane, epoxy, etc.)

Something made of plastic (bumper and the like)

### ■ Product Configuration

| Product Name                            | Pack(ℓ)  | Contents(ℓ) | Storage   |
|---|----------|-------------|-----------|
| HiQ Matt Clear TC-3100MC                | 4.0      | 4.00        | 24 months |
| Matt Clear Hardener (CCH-200, 230, 250) | 1.0      | 1.00        | 12 months |
| HiQ Urethane Reducer DR-421 Series      | 4ℓ , 16ℓ | 4ℓ , 16ℓ    | 24 months |

\* Standard temperature of storage is 20°C.

### ■ Mixing Viscosity

13~15 sec. Viscosity(A+B+T) Ford Cup #4 at 77°F (25°C)

### ■ Pot Life

6 hours at 77°F (25°C) after mixing

### ■ Hardener

|                    | Temperature |         |         |               |
|--------------------|-------------|---------|---------|---------------|
|                    | 5~15°C      | 10~25°C | 20~35°C | 30°C or above |
| Spot repair        | CCH-250     | CCH-200 | CCH-230 | CCH-230       |
| 1~2 panel repair   | CCH-250     | CCH-200 | CCH-230 | CCH-230       |
| Multi panel repair | CCH-200     | CCH-200 | CCH-230 | CCH-230       |

### ■ Reducer

|         | Temperature |          |         |               |               |
|---------|-------------|----------|---------|---------------|---------------|
|         | 5~15°C      | 10~25°C  | 20~35°C | 30°C or above | 40°C or above |
| Reducer | DR-421W     | DR-421WS | DR-421S | DR-421R       | DR-421ER      |

## 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 |
|---|--------------|
| HiQ Matt Clear TC-3100MC                | 3            |
| Matt Clear Hardener (CCH-200, 230, 250) | 1            |
| HiQ Urethane Reducer DR-421 Series      | 0.3          |

\* Mix by volume.

Spray  
Condition



2.0~2.5 bar (gravity feed)  
2~3 wet coats keeping 20~25cm from the surface  
Fluid tip : 1.2~1.4mm, D.F.T.=40~60 $\mu$ m



3.0~4.0 bar (siphon feed)  
2~3 wet coats keeping 20~25cm from the surface  
Fluid tip : 1.4~1.6mm, D.F.T.=40~60 $\mu$ m



0.6~0.7 bar (at nozzle)  
2 wet coats keeping 20~25cm from the surface  
Fluid tip : 1.3~1.5mm, D.F.T.=40~60 $\mu$ m



Flash time : 10 min  
Set time : 10 min

Protective  
Equipment



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

### ■ Drying Times

|                   | Temp. Time |           | Temp. Time |        | Remark |
|-------------------|------------|-----------|------------|--------|--------|
| Time to dust free | 25°C       | 60~70 min |            |        |        |
| Time to handle    | 25°C       | 8~10 hrs  | 60°C       | 30 min |        |
| Time to stripe    | 25°C       | 8~10 hrs  | 60°C       | 30 min |        |

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

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## ADDITIONAL INFORMATION

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### ■ Recoatability

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

*\* Do sand before recoating.*



Dry sand P800



Wet sand P400 - P500

### ■ VOC Content

VOC content of 4.2lbs/gal (500g/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.

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