

# POLYURETHANE FINISH

## HIURELON-HB

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### 1. DESCRIPTION

HIURELON NY is a two component polyurethane based on acrylic urethane polyol and isocyanate, with excellent gloss and color retention. This product is designed for use over the epoxy primer range, providing hard film with outstanding durability, weather resistance, salt resistance, chemical resistance and other physical properties.

### 2. USES

HIURELON NY is typically used for decorative/protective finishes where the durability and excellent abrasion resistance is desired. The desired application includes any type of truck or chassis, steel frame, plant equipment, guard-rail, gate and various tanks, etc.

### 3. PHYSICAL CONSTANTS

1) Color and gloss	: All colors-high gloss
2) Solids by volume	: 52 ± 2 %
Solids by weight	: 65 ± 2 %
3) Specific gravity	: 1.2 ± 0.1 (kg/ℓ)
4) Theoretical spreading rate	: 7.43 m <sup>2</sup> /ℓ - 70 μm
5) Flash point	: 10 °C/50 °F (closed cup)
6) Dry to touch	: 60 ~ 65 minutes (at 20 °C/68 °F) - 70 μm
Fully cured	: 1 week (at 20 °C/68 °F)
7) Shelf life	: 6 month (at 20 °C/68 °F)
8) VOC	: 420 g/ℓ - 3.5 lbf/gal

### 4. APPLICATION DETAILS

1) Mixing ratio	: Base to hardener 85 : 15 (by weight)
	: Base to hardener 5 : 1 (by volume)
2) Thinning ratio	: 10 ~ 30 % (volume) airless spray
3) Thinner No.	: Thinner 690
4) Pot life	: 10 hours (at 20 °C/68 °F)
5) Nozzle orifice	: 0.011 ~ 0.019 inch
Nozzle pressure	: 150 bar/2100 PSI

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## 5. SURFACE PREPARATION

- 1) Remove all rust and loose material by abrasive blasting or power tool cleaning.
- 2) Remove oil and grease, etc.
- 3) Remove salt and other contaminants by high pressure hosing.
- 4) Hose down surface and allow to dry.

## 6. PAINT PREPARATION

- 1) Please mix HIURELON NY with the hardening liquid, stirring the main liquid well, and then further stir for uniformity in its entirety.
- 2) The main liquid should not be directly diluted with thinner as it may occasionally be in the form of an insolvent.
- 3) 85:15 weight mix ratio of components is achieved precisely at the case of mixing full volume from each can will be done.
- 4) Mixed paint of main liquid and hardening liquid would become "cured" at time elapse long. So premixing of components should be done at optimum amount for use. Mixed paint should be used within 10 hours at 20 °C

## 7. APPLICATION CONDITION

- 1) As urethane not can be well hardened at the time of low temperature (on a day when the temperature does not exceed 2 °C), it had better not be used except when the compulsory drying is possible.
- 2) Another 7 days (20 °C/68 °C) will be necessary subsequent to complete dryness of the painted film of bridge reaction there of in a strict sense, especially as regards the to make epoxy give full effects.

## 8. PRECAUTION

This product is combustible.

- 1) Keep away from heat and open flame.
- 2) Keep container closed.
- 3) Use with adequate ventilation.
- 4) Avoid prolonged breathing of vapor.
- 5) Avoid prolonged and repeated contact with skin.
- 6) Store in a cool and dark place.