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## Hi-Urethane Primer #300

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**Hi-Urethane Primer #300** is an adhesive used for primer of Hi-Urethane which have remarkable adhesion strength is based on flexibility and toughness of urethane peculiar properties.

### CHARACTERISTICS

- Excellent chemical, water and moisture resistance.
- Tough film and excellent elasticity.
- Excellent adhesion properties and abrasive resistance.
- It can increase the strength of the substrate by the reaction with moisture in air and have excellent coherence between layers film.

### RECOMMENDED USE

- Primer for Hi-Urethane.
- Primer for Epoxy for floor.
- Primer for tar epoxy.

### PHYSICAL PROPERTIES

- Appearance transparent yellowish liquid
- Non-volatile content (%)  $37 \pm 1$
- Specific gravity (25/4)  $0.95 \pm 0.05$
- Viscosity (cps/25 °C) 10~16
- Theoretical coverage(kg/m<sup>2</sup>) 0.4 ~ 0.5 (114 ~ 143 μm)
- Tack free(min/25 °C) max. 5
- Curing time(hour/25 °C) max. 4

### THINNER

- thinner 001 (winter),
- thinner 003 (summer)

### MIXING RATIO

- One packing type (Moisture curing type)
- Mixing ratio of thinner : 0~50 % (by vol.)

### PACKING UNIT

- 18 ℓ
- Could be packed on request

### STORAGE

- Store it indoor at room temperature.
- Storage temperature : 0~43 °C
- Humidity : 0~70 % (unopened condition)
- Must keep sealed remained product once opened.

### SHELF LIFE

- 6 months in unopened containers under normal warehouse conditions.

### PRECAUTIONS

- Keep adequate ventilation during the application.
- Use masks, gloves, or other protector during the application.
- Protect from the effect of weathering and Store at

temperatures of between 5 and 25 °C indoor.

- Keep away from children during coating and storing.
- Do not exposure to the moisture, because this product is moisture curing type one pack polyurethane.
- Once opened, containers should be resealed immediately after removal of the produce.
- Do not eat absolutely.
- In case of ingestion or skin contact, administrate first aid according to notice on container or Material Safety Data Sheet(MSDS), and see the doctor immediately.
- Do not use other purpose except original recommended use.

**Hi-Urethane Primer #300** is a JEONG SEOK's trade mark.

*IMPORTANT* The information contained in this publication is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.

## Hi-Urethane Primer #300

### LIMITS

This sheet covers with the working with **Hi-Urethane Primer #300**. This sheet is a kind of standard of operations, so if there a specification for detail work and there are some difference in the two documents, it's nice to work according to the specification.

### WORKING CONDITION

- Application tools brush, roller, sprayer, etc.
- Thinner thinner 001 (for winter), thinner 003 (for summer)
- Recoating interval after 3 hour/25 °C
- Number of applying 1~2 times
- Mixing ratio one component
- Theoretical coverage 0.4 ~ 0.5 kg/m<sup>2</sup> (114 ~ 143 μm)

### SURFACE PREPARATION

- Remove dust, sand, moisture and oil on the surface.
- In case of damp surface, dry fully and then apply this product.

### DIRECTIONS FOR WORK

#### 1. Surface treatment

- Importance of surface treatment : There are much alkaline dust on the concrete surface, and it make poor adhesion with polyurethane and surface. So it must be removed for strong film and excellent adhesion.
- Cure the concreted surface sufficiently to remove the alkali of the surface and keep the moisture content within 8% max.

Temperature (°C)	Need to Curing (day)
24	28 Min.
21	30 Min.
10	40 Min.
7	60 Min.

- Clean the surface with acid , sandblast or grinding if you need.
- Remove the concrete ash, oil, dust, etc. on the surface.
- Make surface flat with grinder removing protrusion of concrete surface.
- If there are some crack, repair it with proper putty such as epoxy putty.
- If needed, one of next three method should be carried out.

#### (1) Acid treatment

First make the 5% hydrochloric acid solution by mix with hydrochloric acid and six times of water of it. And apply the 5% HCl solution to concrete surface with paint roller. Stay at 20~30 minute and flush with clean water sufficiently. In this procedure, the alkaline material such as Ca(OH)<sub>2</sub>, K<sub>2</sub>CO<sub>3</sub>, Na<sub>2</sub>CO<sub>3</sub> etc. were removed by neutralization with HCl. So there are good surface condition for adhesion.

#### (2) Blasting

It need to sand blast or shot blast one storing strength area such as parking lot. Because there are much strong adhesion needed. So with that blast treatment, you can get good concrete surface with proper roughness without alkaline material. After blast remove the dust with vacuum cleaner or drying after flushing with clean water.

#### (3) Repair the crack or hole.

Repair the hole with epoxy or urethane putty. If there are crack on surface, fill the crack after V cutting with epoxy or urethane putty.

- Remove dust and any other impurities.
- #### 2. Direction for **Hi-Urethane Primer** coating
- Check the cleaned well surface.
  - If there are some water it must be dried and must be not dusty.
  - Then apply to cleaned surface with Hi-Urethane Primer #300 with roller, brush, or sprayer.
  - It is sufficient one applying, according to surface condition apply it twice.
  - At that time in first coating, mix this product and thinner as 1 : 1 weight ratio, and apply it, and then second time apply this product only.
  - Use Thinner 001 for winter or use Thinner 003 for summer.
  - After 3~24 hours of applying this product, go on next procedure for intermediate coating.
  - If it will be rain within 3 hours after applying this product, it should be stopped.
  - After rain, you should dry the surface, and then applying again.
- #### 3. Direction for next coating. (intermediate and top coat)
- At first check the pre coated Hi-Urethane Primer 300 after that, apply next coating.
  - Please see the DIRECTIONS FOR USE of each product (intermediate and top coat ) for the details.

### PRECAUTIONS

- Keep adequate ventilation during the application.
- Use masks, gloves, or other protector during the application.
- Protect from the effect of weathering and Store at temperatures of between 5 and 25 °C indoor.
- Do not exposure to the moisture, because this product is moisture curing type one pack polyurethane.
- Once opened, containers should be resealed immediately after removal of the produce.
- Keep away from children during coating and storing.
- Must use suitable thinner, otherwise you must get failure coating film.
- Do not eat absolutely.
- High temperature of surface may cause to some problem of product, so it is moderate to work between 5 °C and 35 °C of surface temperature.
- If there is water or humidity on surface, dry first it.
- In case of ingestion or skin contact, administrate first aid according to notice on container or Material Safety Data Sheet(MSDS), and see the doctor immediately.
- Do not use other purpose except original recommended use.

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