

# GP BOND 142

## ALIPHATIC POLYURETHANE FINISH PAINT

### Description

Two component Air Drying Aliphatic Isocyanate based Polyurethane finish coating.

### Recommended Use

This is a fast drying finish coating having UV resistance and non-yellowing properties and can retain aesthetics for a considerably long time. It possesses very good hardness and corrosion protection properties. It is recommended as topcoat in Chemical Process Industries & OEM industries.

### Physical Data

|   |   |
|---|---|
| COLOUR  | : Assorted shades.  |
| FINISH  | : Glossy /Semi-glossy /Matt   |
| SOLIDS BY VOLUME  | : $40 \pm 3\%$ (Depends on shade)   |
| THEORETICAL SPREADING RATE  | : 13.33 sq.mt. /ltr. at recommended DFT of $30\mu$                              |
| FLASH POINT   | : Base : Above $23^{\circ}\text{C}$ Hardener : Above $23^{\circ}\text{C}$       |
| DRYING CHARACTERISTICS<br>(At $30^{\circ}\text{C}$ & 65% Relative Humidity) | : SURFACE DRY : 30 minutes (Max.)<br>HARD DRY : Overnight<br>FULL CURE : 7 Days |
| SHELF LIFE  | : BASE : 6 months HARDENER : 6 months   |

### Surface Preparation

This being a topcoat, which is applied over underneath primer or intermediate coats, the surface should be free from oil, moisture, dust and dirt. Aged epoxy or PU coating should be roughened by emery paper grade 220 for better bonding.

### Application Data

|                      |  |
|----------------------|--|
| MIXING RATIO         | : Base : Hardener - As per our recommendation  |
| APPLICATION          | : By Brush / By Conventional Spray / By Airless Spray                                  |
| THINNER              | : Type 001   |
| POT LIFE             | : 4 hours min at $30^{\circ}\text{C}$  |
| RECOMMENDED DFT      | : $30-40\mu$ .   |
| OVERCOATING INTERVAL | : MIN : 8 hours<br>MAX : 24 hours  |
| COMPATIBILITY        | : Can be applied over Epoxy and Polyurethane primers, intermediate coats and topcoats. |

### Application Method

Stir the Base part thoroughly. Mix the base and hardener as per our recommended ratio, by volume. Stir the mix thoroughly to attain homogeneity. Allow the mixture to stand still (maturation) for about 10 minutes to initiate the reaction. Add Thinner Type 001 into the mix, if required, depending on application method, and stir thoroughly for few minutes. Strain the paint through Nylon filter cloth of recommended mesh size and apply uniformly over the surface. All equipments used for above should be properly cleaned.

Application: By Brush / By Conventional Spray / By Airless Spray

Generally no thinner is required for Brush application, however under adverse environmental conditions about 5% of thinner, by volume, can be added. Apply evenly in crossed manner and ensure the uniformity. Use quality brushes for paint application.

#### For Conventional Spray Application:

Thinner : Type 001

Addition : 5 - 15%

Nozzle Orifice : 1.2 - 1.4 mm

Nozzle Pressure : 40-70 p.s.i.

#### For Airless Spray Application:

Thinner : Type 001

Addition : Max 5%, if required.

Nozzle Orifice : 0.28 - 0.37 mm

Nozzle Pressure : 1400-1800 p.s.i.

### Additional Information

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following section of Grand Polycoats' Data manual :

- Guide to Product Data Sheet
- Surface Preparation Details
- Paint Application Details
- MSDS

### Notes

1. Do not apply paint when temperature falls below 10°C or rises above 50°C and when Relative Humidity is above 85%. Do not apply during rain, fog or mist. Surface temperature must always be minimum of 3°C above Dew point.
2. Brushes and spray equipment should be cleaned with GP's recommended thinner otherwise equipment is liable to be damaged.
3. Products with different volume solids, different qualities are also available on requests.
4. DFT variation can be obtained by change in application method / thinning ratio. Contact Grand Polycoats' representative for further assistance.
5. Shelf life indicated is minimum for this Product in sealed conditions and it is subject to re-inspection thereafter. Individual component is required to be stored in cool, dry and covered condition, away from heat and ignition.

### Health & Safety

This is a solvent based paint and care should be taken to avoid inhalation of spray mist or vapour as well as contact between the wet paint and exposed skin or eyes.

### Limitation of Liability

To the best of our knowledge, the technical data in our literature are true and accurate at the date of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. We make no other warranty or guarantee of any kind, express or implied, including merchantability and fitness for particular purpose. Liability, if any, is limited to replacement of the product or refund of the purchased price. Labour or cost of labour and other consequential damages are hereby excluded.



Perfection in  
Protection

**ISO 9001**  
**ISO 14001**

Grand Polycoats Co.Pvt.Ltd. 204, Siddharth Complex, R.C. Dutt Road, Vadodara - 390007, (Gujarat) India.

Tel.: +91-265-3064200 / 3064201 Fax: +91-265-2337022

E-mail: [marketing@grandpolycoats.com](mailto:marketing@grandpolycoats.com) Website: [www.grandpolycoats.com](http://www.grandpolycoats.com)

R: 01 / 06: 08 This supersedes all earlier versions of this product data sheet.