Tolytol™

TECHNICAL DATASHEET

2K PU HS CLEARCOAT

2K PU HS Clear Coat is a high-performance, two-component polyurethane clear coating designed for automotive refinishing and OEM applications. When mixed with the recommended hardener, it delivers excellent gloss, durability, and long-lasting protection. This clear coat provides superior resistance to UV rays, chemicals, fuel, and weathering, ensuring sustained gloss retention.

PRODUCT BENEFITS

- **High Gloss and clarity:** Provides an intense mirror-like gloss finish that enhances the appearance of vehicles surfaces. Its high-solids content allows for a thicker, more transparent film build, enhancing the depth and clarity of the underlying basecoat (metallics, pearls, or solid colors).
- **Scratch & Abrasion Resistance:** Acts as a protective layer against minor scratches, swirl marks, dust, and road debris.
- **UV Protection**: Protects the base color coat from harmful UV rays, preventing fading, chalking, and discoloration.
- **Easy Maintenance**: Smooth surface makes washing, cleaning, and polishing easier while retaining gloss for longer periods.
- **Smooth Flow and Easy Application:** Excellent flow and levelling properties ensure a smooth, uniform surface with minimal spray marks.

AREAS OF APPLICATION

- **Passenger cars & SUVs** – OEM factory finishes and refinishing after repairs.
- **Two-wheelers** – motorcycles and scooters for gloss, protection, and color depth.
- **Commercial vehicles** – trucks, buses, vans for durability and weather resistance.
- **Automotive refinish & body shops** – collision repair, repainting, and restoration work.

PRODUCT FEATURES

• Surface	• Metal, vehicles, ABS
• Available Pack	• 1.5L or 7.5L (Clearcoat & Hardener)
• Pot-life	• 2H at 30^0C
• Shelf life	• 1 year from date of manufacturing
• Finish	• Gloss, (satin and matt) available on demand
• **Mixing Ratio**	• **2 : 1 (By volume)**
• Dust dry	• 3-5 min at 30°C between coats or 20 mins at 30°C before baking
• Touch dry	• 2h at 30ºC or 15 mins at 60ºC
• Hard dry	• 14-16h at 30°C or 30 mins at 60°C

SURFACE PREPARATION

Metal surfaces

- Dry sand the area of application.
- Degrease the surface using an appropriate degreaser before applying 2K Primer.
- Wet sand the area using wet sanding paper for 400.
- Let dry and wipe the area using a tack cloth.
- Degrease again using a tack cloth.
- Add 2 coats of basecoat (flash off time: 15-20 mins)
- Once dry, apply 2 coats of **2K PU HS Clear Coat** with a flash-off time of 15 minutes.

Wood surfaces

- Sand the surface with abrasive paper (starting with P80 to P320)
- Apply 1 coat of **Sealer**.
- after 15 minutes, dry sand the surface using P400 and apply **Woodstain**.
- Apply two coats of **2K PU HS Clear Coat** with a flash-off time of 15 minutes.

- **Plastic surfaces**
- Wipe surface with degreaser.
- Use fine abrasive paper to scuff the area starting with P320 to P400 and finish with P500 to P600.
- Wipe area again using a tack cloth.
- Apply **Plastic Primer**.
- Apply 1 coat of 2K Primer and allow to dry before sanding with P600 to P800 dry.
- Wipe area again with a tack cloth to remove dust particles and apply 2 coats of basecoat (flash off time: 15-20 minutes)
- Once dry, Apply two coats of **2K PU HS Clear Coat** with a flash-off time of 15 minutes.

APPLICATION PROCESS

- Method to use: Spray
- Thinning: Universal PU Thinner

POST PAINTING CARE

- Apply high-quality carnauba wax, synthetic sealant, or paint protection film (PPF) every few months. This creates a sacrificial barrier against UV rays, environmental fallout, and road grim.
- For ultimate durability and hydrophobic properties, the 2K HS Clear Coat can be protected with a professional-grade ceramic coating after it has fully cured (typically 30 days).
- Avoid washing the vehicle for a period (typically 7 days) to allow the clear coat to fully cross-link and outgas any remaining solvents.
- Avoid exposure to harsh chemicals, bird droppings, tree sap, and strong solvents. If contamination occurs, rinse it off immediately with mild soap and water.
- Always use a pH-balanced, mild car shampoo that does not contain harsh detergents, which can strip away protective waxes or degrade the clear coat surface over time.
- Use a high-quality, clean microfiber wash mitt or soft sponge. Avoid using sponges that may trap dirt particles.
- Do not let the vehicle air dry outdoors, as water spots (especially from hard water) can form. Dry immediately using a clean, plush microfiber drying towel.

SAFETY AND ENVIRONMENT FEATURES

- Store the container with the tightly closed lid in an upright position, in a cool dry place.
- Keep out of reach of children.
- May be harmful if swallowed. In case of ingestion, seek immediate medical attention.
- Wear eye protection during application. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- In case of skin contact, immediately wash skin with soap and plenty of water. Seek medical attention if irritation develops or persists.
- Do not breathe vapor or spray. It is recommended to wear air-fed respirator mask during and immediately after spraying.
- Do not pour leftover paint down the drain or in water courses.
- In an event of spilling, contain spillage using sand or earth.
- No added Lead, Mercury or Chromium compounds.
- The product is harmful to aquatic life and cannot be allowed to reach sewage systems or water courses. All residues and waste materials must be disposed of in accordance with local/national hazardous waste regulations
- The pails/drums should not be used for storing food items.

DISCLAIMER
These recommendations are meant as a guide, no guarantee is implied since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

Polytol Paints

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