Polytol™

TECHNICAL DATASHEET

NITRO CELLULOSE STOPPER

Polytol NC Stopper Paint (Nitrocellulose Stopper Paint) is a high-performance, fast-drying filler material used in automotive refinishing and general metal repair work. Formulated with nitrocellulose resin, it is designed to fill small dents, scratches, pinholes, and surface imperfections on metal, wood, or previously painted surfaces before applying primer or topcoat.
Ideal for use in body shops and industrial settings, NC Stopper Paint offers excellent adhesion, quick drying, easy sanding, and a smooth finish, making it a preferred choice for pre-paint surface preparation.

PRODUCT BENEFITS

- **Quick Drying Time**: Speeds up the repair and refinishing process, reducing overall job time.
- **Excellent Sandability**: Sands easily to a smooth, even finish with minimal clogging of sandpaper.
- **Superior Surface Filling**: Effectively fills minor dents, scratches, pinholes, and other surface imperfections.
- **Strong Adhesion**: Adheres firmly to metal, wood, and previously coated surfaces, ensuring long-lasting repairs.
- **Smooth Finish**: Provides a uniform base for primers and topcoats, enhancing final paint quality.
- **Easy Application**: Spreads smoothly with a spatula or spreader, making it user-friendly even for non-professionals.
- **Versatile Use**: Suitable for automotive repairs, metalwork, woodworking, and general surface refinishing.
- **Compatible with NC Systems**: Fully compatible with nitrocellulose primers and paints, ensuring chemical consistency and coating performance.
- **Improves Final Appearance**: Helps achieve a high-quality, professional-looking paint finish by correcting surface flaws.

AREAS OF APPLICATION

- **Automotive Industry**: Filling minor dents, scratches, and pinholes on car bodies before priming and painting. Used in vehicle repair workshops and body shops.
- **Metal Fabrication:** Surface correction of fabricated metal parts to ensure a smooth finish before painting or coating. Ideal for machinery, tools, and equipment surfaces.
- **Furniture and Woodworking**: Filling surface imperfections on wooden furniture and fixtures prior to applying NC-based paint or lacquer.
- **Industrial Maintenance and Repainting**: Surface repair in industrial equipment and metal structures where a quick-drying filler is needed before repainting.
- **DIY and Hobby Projects**: Perfect for small-scale home repairs, art projects, and custom builds requiring a smooth painted finish.
- **Signage and Display Fabrication**: Used to prepare surfaces on signboards, display units, and other promotional materials for a professional finish.

PRODUCT FEATURES

Surface	Interior
Available Pack	500 mL and 1L
Shelf life	1 year from date of manufacture in original tightly closed containers.
Coverage	1-2 m^2/kg
Finish	Matte
Drying time to touch	6 hours @ 25 – 35 °C
Sanding after	12 hours @ 25 – 35 °C

SURFACE PREPARATION

1. **Clean the Surface**
   - **Remove dirt, grease, oil, and wax** using a degreaser or surface cleaner (e.g., wax & grease remover).
   - Make sure the surface is **completely dry** before proceeding.
2. **Sand the Surface**
   - Use **P80–P180 grit sandpaper** to roughen the surface.
   - This improves **mechanical adhesion** by giving the stopper something to grip onto.
   - For bare metal, **do not leave smooth or polished**—matte/rough finish is better.
3. **Apply Primer (if required)**
   - On **bare metal** (especially steel or aluminium), apply an **etch primer** or **2K epoxy primer** before NC stopper.
   - On previously painted surfaces, you can apply stopper directly if the old paint is well-adhered and sanded.
4. **Dust Removal**
   - Use an **air blower or tack cloth** to remove sanding dust.
   - Any remaining particles will reduce adhesion and cause surface defects.
5. **Mix and Apply NC Stopper**
   - Mix thoroughly (especially if 2-part) and apply using a **flexible spatula** or **putty knife**.
   - Apply in **thin layers** to avoid cracking or shrinkage.
   - Let each layer **fully dry** before sanding or recoating.

APPLICATION PROCESS

Method	:	Flexible spatula or Putty knife
Thinning	:	NC Thinner
Dilution	:	DIN 4 at 20°C around 18-20 seconds

POST PAINTING CARE AND PRECAUIONS

1. **Topcoating**
   - NC stopper is **not weatherproof or UV-resistant** by itself.
   - Apply a **primer-surfacer** and then a **topcoat** (like NC paint, PU, or acrylic lacquer).
   - Ensure each coat is compatible and applied under the right conditions (dry, dust-free, well-ventilated).

2. **Avoid Exposure to Water or Solvents**
   - Do **not wash, wax, or expose to moisture** for at least **7–10 days** after the final topcoat.
   - This allows for complete solvent evaporation and film hardening.

3. **Polishing (Optional)**
   - After full curing (usually 7+ days), you can **lightly polish** or compound the topcoat for enhanced gloss.
   - **Do not polish the stopper layer directly**, only the final paint layer.

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 and away from eating tables.
- 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. Get medical attention if irritation develops or persists.
- Do not breathe vapor or spray. It is recommended to wear suitable nose pad during sanding and surface preparation to avoid dust inhalation.
- Do not pour leftover paint down the drain or in water courses.
- In an event of spill, contain spillage using sand or earth.
- No added Lead, Mercury or Chromium compounds.

Left-Over paint disposal:

- Left-over paint/drums should not be disposed in soil/drains. Consumers should consult a local recycling agency for disposal of paint/drums.
- 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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