



## Technical Data Sheet

**Product Name:** Polyurethane roller polishing agent CUBD-MG01

### Typical Properties:

Appearance (25°C)	White turbid low viscosity liquid
Density (g/cm <sup>3</sup> , 25°C)	0.918
Viscosity (mPa.s, 25°C)	30-200

### Features & Advantage:

As we all know, in order to achieve a certain concentricity and surface smoothness, polyurethane rollers need to be polished after machining by lathe. In particular, the ink coating roller, such as the coating roller used for color steel plate printing, needs fine grinding after the surface is polished, so as to ensure that the surface of the rubber roller is smooth without polishing scratch, otherwise it cannot meet the printing requirements. However, high-quality tough polyurethane has viscoelastic properties. Under normal circumstances, due to friction heat generated by polishing and grinding, the gel surface is melted and adhered, and the smooth roll surface cannot be obtained. In order to solve the problem of melting and adhesion during polishing and grinding, a large amount of crosslinking vulcanizing agent is used in the formula, but this increases the brittleness of polyurethane and is not resistant to tearing. The powder and slag are dropped during polishing, and the surface of fine polishing roller can not meet the required brightness, which results in shortening the service life of rubber roller. It is the key technical problems to get both toughness and polishability, which need to be overcome for high-end polyurethane coating rollers. CUBD-MG01 is a functional additive developed to solve this problem. It has the following characteristics:

- There is no need to spend time and effort adjusting the formula due to the sticky sand belt during polishing. Just add MG01 to solve the problem. Avoid complex formula modification design and minimize the workload of formula engineers.
- There is no adhesion during polishing and fine grinding. The roll surface is bright and traceless, which solves the problem of both polyurethane toughness and bright polished surface. Greatly improve the surface accuracy and quality of rollers.
- Solve the problem of polishing and sticking of polyurethane with wide hardness range, especially low hardness.
- It does not affect the hardness, tensile strength and other mechanical properties of polyurethane, and does not affect the high and low temperature resistance of polyurethane.
- Liquid state, easy to use.
- Less dosage and excellent effect.

### Applications:

It is used for polyurethane products whose surface needs polishing by grinding wheel or abrasive belt to solve the problem of surface stickiness during polishing / grinding, so as to achieve a smooth and bright high-quality surface, such as polyurethane coating rollers and so on.

### User's Guide:

- Generally, the addition amount is 0.05% - 0.2% of the total PU, and its optimal dosage should be determined after the test. Excessive addition is not recommended.
- It can be added into both Isocyanate component and polyol component.
- In order to obtain better results, it should be ensured that it is fully and evenly dispersed in the system. It is recommended to keep stirring or intermittent stirring.
- After unsealing and use, it shall be sealed and stored.

### Handling & Storage:

Product should be stored in a cool, dry environment away from sunlight, excessive heat and rain.

**Package:** 25kg/200kg in HDPE drum

**Shelf Life:** The unopened shelf life is 18 months from the date of manufacture.

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