

Technical Data Sheet (TDS)

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LP3008 Adhesive

Product Use:

LPT 3008 Adhesive is primarily used for bonding rubber to rubber, rubber to metal, rubber to fabric, and fabric to fabric. It works in combination with ER-65 Curing Agent, LPT1205 Metal Surface Treatment Agent, and LPT366 Rubber Treatment Agent. It is an ideal adhesive for bonding wear-resistant rubber linings to metal surfaces. This adhesive is commonly applied in cold bonding processes for vibrating screens, valves, pumps, cyclones, drums, and other equipment.

Product Features:

- Exceptional bonding strength.
- High efficiency and fast curing; easy to use with immediate application.
- To be used in combination with ER-65 Curing Agent at a ratio of 100:5 (50g of curing agent per 1kg of adhesive).

Product Performance:

- Peel Strength (N/mm, 24h): ≥ 6
- Working Time (hours): 3-4
- Operating Temperature Range (°C): -45 to 100

Usage Instructions:

I. Metal Surface Treatment:

1. **Sanding:** The metal surface should be sandblasted or chemically treated to remove oil, rust, and other oxide layers. After surface treatment, adhesive must be applied within 90 minutes.
2. **Apply Metal Treatment Agent:**
 - LPT1205 Metal Treatment Agent must be fully stirred and mixed before use.
 - Apply a layer of treatment agent evenly on the sanded metal surface using either a brush or roller application method. The typical dry film thickness is between 5.1-10.2 μm .
 - After application, allow the surface to air dry at room temperature for 60 minutes. Heating the surface will improve the result.

II. Rubber Surface Treatment:

1. **Sanding and Cleaning:** Use a tungsten carbide wheel to roughen the clean rubber surface. Be careful to avoid polishing or burning the rubber. After sanding, clean the rubber surface thoroughly.
2. **Treatment and Drying:** Mix component B of **LPT366 Rubber Treatment Agent** into component A and stir until fully dissolved. Apply the mixed agent onto the treated rubber surface and let it air dry for at least 10 minutes for optimal results.

III. Metal and Rubber Bonding:

1. **Prepare Adhesive:** Mix the adhesive and curing agent at a 100:5 weight ratio and use within 3 hours. Always mix as needed.
2. **Apply Adhesive:** Apply the adhesive in two coats. Each layer should be applied evenly, ensuring that the bonding surface is fully saturated and penetrated by the adhesive. After the first coat, allow it to dry thoroughly before applying the second coat (usually the next day). The surface should be dry to the touch, with no sticky residue.
3. **Bonding:** Once the final layer of adhesive has dried to a non-sticky, tacky state, the two surfaces can be bonded. Align both surfaces and press them together. Use a rubber mallet to tap from the center outward to ensure a strong, tight bond.

Precautions:

- When using in environments with temperatures below 15°C or humidity above 90%, it is recommended to increase the temperature.
- The adhesive should not come into contact with water. Ensure the bonding surface is dry, as moisture can affect the curing and bonding strength of the adhesive.
- Avoid contact with skin and eyes. If the adhesive accidentally splashes into the eyes, rinse immediately with plenty of water and seek medical attention.
- The work area must be well-ventilated.
- Keep away from children.

Net Weight per Barrel: 3.5kg.

For detailed safety data, please refer to the LPT3008 Safety Data Sheet.

Warranty: The data provided above is obtained under standard laboratory conditions. The company guarantees the product quality; however, due to variations in user conditions (e.g., surface state, curing conditions), actual performance may vary slightly, which is considered normal. Additionally, factors such as storage conditions and transportation may impact the adhesive's stability, as well as its physical and mechanical properties.