

Polyurethane Binder for Rubber Floor Tiles (High-Temperature Curing)

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1. Product Overview

YP-181(MG) is a high-performance, high-temperature curing polyurethane adhesive specifically formulated for producing rubber floor tiles. It provides excellent adhesion, mechanical strength, and durability under high-temperature curing conditions. Ideal for sports facilities, industrial flooring, and other rubber-based applications.

2. Core Technical Parameters Test Condition: High-temperature curing environment

Item	Specification	Test Result
Appearance	Viscous liquid	Light yellow/brown
Viscosity (mPa.s)	60-90	70
Density (g/cm ³)	/	/
NCO Content (%)	500-1000	750
Solid Content (%)	≥0.9	0.92
Tensile Strength (MPa)	≥30	32
NCO Content (g/cm ³)	5.35 ±0.2	5.4
Curing Type	High temperature curing	High temperature curing
Main Application	Produce rubber floor tiles	Rubber floor tiles
Isocyanate Base	MDI	MDI

3. Key Performance Characteristics

- High Adhesion: Ensures strong bonding between rubber granules.
- Durability: Maintains performance under high temperatures.
- Mechanical Strength: High tensile strength for long-lasting flooring.
- Flexibility: Absorbs impact and reduces cracking.

4. Main Applications

- Rubber floor tiles for industrial and commercial use.
- Sports surfaces requiring high-temperature curing.
- Outdoor and indoor recreational flooring.

5. **Surface Preparation:** Ensure the substrate is clean, dry, and free of dust and oil.

6. **Mixing:** Uniformly mix according to project requirements.

7. **Curing:** Cure under recommended high-temperature conditions until fully hardened.

8. Storage & Shelf Life

- Storage Conditions: Store in a cool, dry, ventilated area.
- Temperature Range: 5°C – 25°C recommended.
- Shelf Life: 6 months in sealed containers under proper conditions.
- Precautions: Keep container tightly closed to prevent moisture absorption.

9. Safety & Handling

- Contains isocyanate groups, which may cause irritation.
- Operators must wear protective clothing, gloves, and goggles.
- Ensure good ventilation during handling.
- Follow local regulations for disposal of waste material.

10. Regulatory & Compliance

- Complies with relevant international and national environmental standards.
- Suitable for SGR Sanitary Registration and EAC Certification.

11. Disclaimer

Data are obtained under standard test conditions for reference only. Performance may vary based on construction environment and usage. Users should perform pre-construction tests to verify optimal conditions.