



ATLAS ADHESIVES

"2008 R Pu Binder"

Technical Data Sheet

DESCRIPTION

This MDI polyurethane binder is specifically engineered for rubber tiles and molding production. It cures via air humidity or heat under pressure, featuring low viscosity and a solvent-free formulation. It effectively bonds **recycled rubber, EPDM granules, and sponge particles into a high-strength composite.**

TECHNICAL SPECIFICATIONS

S. No	Properties	Result
1.)	Chemical Basis	MDI-based Single Component Polyurethane
2.)	Colour	Clear Transparent
3.)	Density	1.08 kg / Ltr
4.)	Viscosity	3000-3500 cps
5.)	NCO Content	12.% ± 2
6.)	Solids Content	100% (Solvent Free)
7.)	Pot Life	120 Minutes (at 25°C, 50% Humidity)
8.)	Full Cure Time	24 Hours
9.)	Mixing Ratio	4-8% (by weight of SBR or EPDM granules)
10.)	Application Temp	10°C to 40°C
11.)	Tensile Strength	Approx 185 kg / cm ²
12.)	Packaging	50 / 220 kg



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Application

- **Gym Flooring:** Heavy-duty SBR tiles for weightlifting and fitness areas.
- **Safety Play Mats:** Impact-absorbing recycled rubber tiles for playgrounds.
- **Pavers:** Interlocking SBR pavers for walkways and patios.PU
- **Ballistic Tiles:** High-density rubber blocks for shooting ranges.
- **Acoustic Mats:** Sound-dampening underlayments made from black SBR crumbs.

Features and Advantages

- **Strong SBR Adhesion:** Specially formulated to wet and bond recycled SBR rubber crumbs effectively.
- **Cost-Efficient:** Optimized for high-volume production of black rubber tiles.
- **Flexibility:** Maintains high elasticity and shock absorption properties.
- **Eco-Friendly:** 100% solids, solvent-free, and low odour formulation.
- **Process Stability:** Consistent viscosity ensures uniform mixing in drum mixers.

Application Method

1. **Surface Preparation:** Ensure molds are clean, dry, and free from oil or release agents.
2. **Mixing Ratio:** Recommended dosage is **4% - 6%** by weight of SBR granules.
3. **Mixing Process:**
 - Add SBR rubber granules to the mixer.
 - Pour the required amount of Neosol 2008 PU Binder.
 - Mix for **3 - 5 minutes** until all SBR granules are evenly coated.
4. **Molding:** Transfer the mixture into hydraulic press molds or compression molds. Apply pressure to achieve desired density.
5. **Curing:** Cure time depends on temperature and humidity. Heated molds will significantly accelerate the demolding time.

Safety

Contains Isocyanates. Avoid breathing vapours and skin/eye contact using appropriate protective equipment. In case of contact, rinse eyes immediately with water and seek medical advice. Refer to the MSDS for detailed safety instructions.

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