



Bituminous Sealant Technical Data Sheet

Product Description

Bituminous Sealant is a high-performance, solvent-based sealant that provides excellent waterproofing and sealing properties for a wide variety of applications. Composed primarily of bitumen, this sealant is designed to create a long-lasting, flexible, and highly durable seal that protects surfaces from water penetration, UV degradation, and chemical corrosion. When applied, the product forms a tough, elastic, and weather-resistant coating that adheres strongly to many types of substrates, including concrete, brick, metal, wood, and masonry.

The sealant is formulated to remain flexible after curing, enabling it to expand and contract with temperature fluctuations and structural movements. This flexibility helps maintain a reliable seal over time, even under harsh weather conditions, such as rain, snow, heat, or freezing temperatures. The bituminous formulation ensures superior waterproofing properties, making it particularly effective in areas prone to water exposure. Bituminous Sealant is easy to apply and offers a cost-effective solution for sealing cracks, joints, and seams, as well as waterproofing roofs, foundations, basements, and other structures. It is commonly used in both residential and commercial projects to protect surfaces from moisture and prevent leaks, thus extending the lifespan of the building materials.

The sealant is resistant to a range of environmental factors, including UV radiation, and is highly resistant to oxidation. As it is solvent-based, it provides a thicker coating compared to water-based sealants, offering enhanced waterproofing performance. This product is available in both paste and liquid forms, depending on the desired application method.

Recommended Use

1. Waterproofing:

- **Roofs and Roof Joints:** Bituminous Sealant is widely used in the construction industry to waterproof roofs, roof joints, and flashing. It can be applied to both flat and pitched roofs, providing an effective barrier against water ingress and preventing leaks.
- **Foundations and Basements:** This sealant is ideal for waterproofing foundations and basements, where it helps to prevent water seepage and protect the structure from water damage. It is commonly used in the construction of buildings in areas with high water tables or poor drainage.

2. Sealing and Joint Filling:

- **Expansion Joints and Cracks:** Bituminous Sealant is effective for filling expansion joints, cracks, and gaps in concrete, masonry, and metal structures. It ensures a long-lasting, flexible seal that accommodates movement and prevents water from entering the joint.
- **Concrete Pavement and Highways:** In infrastructure projects, it is used to seal joints in concrete pavement, highways, and bridges. The sealant prevents water from penetrating the joints and causing erosion or damage to the underlying structure.

3. Industrial Applications:

- **Metal Roofs and Metal Structures:** The sealant is highly effective for sealing and waterproofing metal roofs and structures, providing protection from rainwater and corrosive elements. Its adhesion to metals ensures that the seal is durable and reliable in industrial environments.
- **Pipes and Pipelines:** Bituminous Sealant is used to seal joints, seams, and cracks in pipes and pipelines, particularly in underground or exposed environments. It is resistant to



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chemicals and oils, making it ideal for industrial piping systems in manufacturing, oil, and gas sectors.

4. General Purpose Use:

- **Exterior Sealing:** Bituminous Sealant is ideal for general exterior sealing applications, such as sealing joints in masonry, brickwork, and stone walls. It can also be used in waterproofing and sealing outdoor structures like sheds, fences, and garden walls.
- **Automotive Applications:** It is also used for sealing joints and seams in vehicle construction, particularly in truck beds and trailers, where waterproofing is critical.

Technical Data Specification

- **Colour:** Black
- **Appearance:** Paste or liquid
- **Specific Gravity:** 1.2–1.5 g/cm³
- **Viscosity:** Medium to high
- **Flash Point:** 45–50°C (Solvent-based)
- **Curing Time:** 24–48 hours (depending on environmental conditions)
- **Water Resistance:** Excellent
- **Temperature Resistance:** -10°C to +80°C
- **Shore A Hardness:** 45-55
- **VOC Content:** High (due to solvent base)
- **Shelf Life:** 12 months (unopened container)
- **Elongation at Break:** 300–400%
- **Tensile Strength:** 1–2 MPa

Dosage, Addition, and Method of Application

1. **Dosage:** The amount of Bituminous Sealant required will depend on the size of the area to be sealed. As a general guideline, for joints, a 6mm bead will cover approximately 10–15 linear meters per liter of sealant. For larger cracks or voids, additional sealant may be necessary to ensure a complete seal. Coverage may vary based on surface porosity and application method.
2. **Addition:** Bituminous Sealant is typically supplied as a two-component system, consisting of the sealant paste (or liquid) and a hardener or activator. The sealant comes ready to use in most cases, but for some formulations, it may require the mixing of a catalyst or hardener. Always follow the manufacturer's instructions for proper addition and mixing ratios (if applicable).
3. **Surface Preparation:**
 - Ensure that the surface to be sealed is clean, dry, and free of any dirt, dust, oils, or debris. A thorough cleaning using a degreaser or solvent is recommended for best results.
 - For smooth or glossy surfaces, lightly roughen the surface with sandpaper or a wire brush to improve adhesion.
 - For larger cracks or gaps, it may be necessary to apply a primer or bonding agent before the sealant to ensure proper adhesion.
4. **Application Method:**
 - **Step 1:** Prepare the sealant by ensuring that it is well-mixed, especially if it has been stored for an extended period.
 - **Step 2:** Use a caulking gun or trowel to apply the sealant to the desired area. For larger surfaces, a brush or roller can be used for an even coat.
 - **Step 3:** Apply the sealant generously, filling the gap, joint, or crack completely. For joints, apply a consistent bead of sealant along the joint line.

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- **Step 4:** Smooth the surface of the sealant with a spatula or finger (dipped in water) to achieve a neat finish. If working in hot conditions, ensure that the sealant does not dry out before it is fully applied.
- **Step 5:** Allow the sealant to cure for 24–48 hours. Do not disturb the sealed area during this curing period to ensure maximum adhesion and waterproofing.

Safety Instructions

1. Handling:

- Always wear appropriate protective gloves, goggles, and clothing when handling Bituminous Sealant.
- Ensure the workspace is well-ventilated, as the sealant contains solvents that can release fumes during application and curing.
- Avoid direct skin contact with the sealant. In case of skin contact, wash immediately with soap and water.

2. Storage:

- Store the Bituminous Sealant in a cool, dry place, away from direct sunlight, heat, and open flames.
- Keep containers tightly sealed to prevent evaporation of solvents and contamination.

3. First Aid:

- **Skin Contact:** Wash immediately with soap and water. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse eyes immediately with plenty of water for at least 15 minutes. Seek medical help if irritation continues.
- **Inhalation:** Move to an area with fresh air immediately. Seek medical attention if respiratory symptoms occur.
- **Ingestion:** Do not induce vomiting. Rinse mouth and seek medical attention immediately.

4. Disposal:

- Dispose of unused sealant according to local regulations. Do not dispose of the product in drains or water systems.
- Clean tools and equipment immediately after use with an appropriate solvent.

Bituminous Sealant is a versatile, reliable, and durable solution for a wide range of sealing and waterproofing applications. Proper handling and application will ensure effective and long-lasting performance in protecting structures from water damage and environmental degradation.