



Butyl Rubber Sealant Technical Data Sheet

Product Description

Butyl Rubber Sealant is a high-performance, rubber-based sealant designed for sealing a variety of applications where durability, flexibility, and moisture resistance are essential. It is formulated with butyl rubber, a synthetic rubber known for its excellent adhesive properties, water resistance, and ability to form a long-lasting seal. This sealant is typically used for both interior and exterior applications and can withstand harsh environmental conditions, including high humidity, moisture, and UV exposure.

The sealant is a versatile, non-sagging, and highly flexible product, providing excellent adhesion to a wide range of surfaces, including metals, plastics, glass, concrete, and wood. Butyl Rubber Sealant creates a watertight seal that prevents air, moisture, and dust from infiltrating gaps, cracks, and joints. Once cured, it forms a durable, flexible, and weather-resistant bond that can withstand temperature fluctuations and movement in the substrate without cracking or breaking.

Due to its strong adhesive qualities, it can be used in applications that require sealing against water leakage, such as in construction, automotive, and marine environments. It is also resistant to chemicals, oils, and solvents, making it suitable for use in industrial and manufacturing settings.

Butyl Rubber Sealant is ideal for use in applications where a non-paintable, durable, and long-lasting seal is required. Its ability to remain flexible and bond securely over time ensures that it provides a permanent solution for sealing joints and gaps in various materials. Additionally, the sealant is easy to apply and clean up, making it a preferred choice for professionals and DIY enthusiasts alike.

Recommended Use

1. Construction and Building:

- **Sealing Windows and Doors:** Butyl Rubber Sealant is widely used in the construction industry for sealing around windows and doors, creating an airtight and waterproof barrier. It prevents drafts, moisture, and water from entering through gaps, ensuring better insulation and energy efficiency.
- **Roofing Applications:** This sealant can be used to seal roof joints, flashings, and seams to prevent water ingress. It is particularly effective in areas prone to heavy rain and exposure to moisture.
- **Wall and Surface Sealing:** It is ideal for sealing joints and cracks in masonry, concrete, and other building materials. It is also used to seal joints in expansion joints, ensuring that water does not seep into structural elements.

2. Automotive and Marine:

- **Window and Windshield Sealing:** Butyl Rubber Sealant is commonly used in the automotive industry to seal windshields and windows. Its waterproof and adhesive properties ensure that the seal holds up to the rigors of driving conditions.
- **Roofing and Trim Sealing:** It is used in the automotive and marine sectors to seal seams, joints, and edges of roofs, hoods, and trim, providing a strong waterproof seal that resists the effects of weather, UV exposure, and moisture.

3. Industrial and Manufacturing:

- **Gasket Sealing:** Butyl Rubber Sealant is often used as a gasket material to seal industrial equipment, pipes, and tanks. It is resistant to oils, chemicals, and solvents, making it suitable for harsh environments where leakage must be prevented.
- **Electrical Enclosures:** It is used to seal electrical enclosures and junction boxes, ensuring that moisture, dust, and debris do not interfere with electrical components.



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J-896, Matsya Industrial Area, Alwar, Rajasthan - 301030
Email: support@spakslube.com | Website: www.spakslube.com

4. DIY and General Applications:

- **Home Repairs:** For sealing cracks in walls, ceilings, and around window sills, Butyl Rubber Sealant provides a durable and flexible solution.
- **Marine and Outdoor Equipment:** It is used to seal joints, seams, and cracks in outdoor and marine equipment, ensuring that water doesn't damage tools, machinery, or boats.

Technical Data Specification

- **Colour:** Black, Grey, or Custom colors available
- **Base:** Butyl rubber
- **Appearance:** Paste-like, non-sagging
- **Specific Gravity:** 1.5–1.7 g/cm³
- **Viscosity:** High
- **Curing Mechanism:** Air-dried, skin forms quickly
- **Service Temperature Range:** -40°C to +120°C
- **Shore A Hardness:** 20-30
- **Elongation at Break:** 150–250%
- **Tensile Strength:** 1.0–1.5 MPa
- **Water Resistance:** Excellent
- **UV Resistance:** Good
- **Chemical Resistance:** Good (oils, solvents, and most chemicals)
- **Shelf Life:** 12 months from manufacturing date (stored in a cool, dry place)
- **VOC Content:** Low

Dosage, Addition & Method of Application

1. **Dosage:** The required amount of Butyl Rubber Sealant will vary depending on the size of the gap, crack, or joint being sealed. For general use, approximately 10-12 linear meters can be sealed with one 300ml cartridge, using a 6mm bead. For larger joints, more sealant may be required. Ensure that the application area is adequately covered for a proper seal.
2. **Addition:** Butyl Rubber Sealant is supplied in ready-to-use cartridges, tubes, or bulk containers. No mixing is required. Simply remove the cap from the cartridge and load it into a caulking gun for ease of application. Ensure that the substrate is clean, dry, and free of debris before applying the sealant.
3. **Surface Preparation:**
 - Clean the surface thoroughly to remove any dirt, grease, oil, or old sealant.
 - Dry the surface completely before application.
 - For better adhesion on smooth surfaces, lightly roughen the area using sandpaper.
4. **Application Method:**
 - **Step 1:** Load the Butyl Rubber Sealant into a caulking gun.
 - **Step 2:** Cut the nozzle at the desired bead size, typically 5mm to 10mm for general applications.
 - **Step 3:** Apply a continuous bead of sealant along the joint or crack, making sure to fill the gap completely.
 - **Step 4:** Smooth the surface using a wet finger or tool to ensure an even application and to remove excess material.
 - **Step 5:** Allow the sealant to cure for 24–48 hours (depending on the thickness and environmental conditions).



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5. **Post-Application:** After curing, Butyl Rubber Sealant will form a flexible, durable seal. It can be painted over if required, although it is often used as a non-paintable sealant. Once applied and cured, it will resist the effects of weather, water, UV exposure, and temperature fluctuations.

Safety Instructions

1. **Handling:**

- Always wear gloves and safety glasses when applying Butyl Rubber Sealant to avoid skin and eye contact.
- Ensure adequate ventilation in confined areas to avoid inhaling fumes.
- Do not ingest or inhale vapors from the sealant.

2. **Storage:**

- Store Butyl Rubber Sealant in a cool, dry place, away from direct sunlight and heat sources.
- Keep the product sealed in its original container to prevent contamination or drying out.
- Ensure that the sealant is kept away from open flames, sparks, or electrical sources.

3. **First Aid Measures:**

- **Skin Contact:** Wash affected skin areas with soap and water. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse with clean water for at least 15 minutes. If irritation persists, seek medical attention.
- **Inhalation:** Move to fresh air immediately and seek medical attention if symptoms persist.
- **Ingestion:** Do not induce vomiting. Rinse mouth with water and seek medical attention immediately.

4. **Disposal:**

- Dispose of unused or cured sealant in accordance with local regulations.
- Do not dispose of Butyl Rubber Sealant down drains or in the environment.

By following the above safety instructions and using Butyl Rubber Sealant as directed, you can ensure a secure and long-lasting seal for various applications. It is a versatile, durable, and reliable product for sealing joints, gaps, and cracks in a wide range of environments.