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Latex Sealant Technical Data Sheet

Product Description

Latex Sealant is a versatile, water-based, and eco-friendly sealant designed for sealing gaps, joints, and cracks in a variety of substrates. It is formulated with high-quality latex, which provides excellent flexibility, adhesion, and durability. Latex Sealant is non-toxic, low in odor, and easy to apply and clean, making it ideal for use in residential, commercial, and industrial applications.

This sealant provides a smooth, paintable finish, which allows it to seamlessly blend with surrounding surfaces, offering an aesthetic solution for sealing. Once cured, Latex Sealant forms a flexible and durable bond that resists cracking, shrinking, and peeling over time. The sealant is suitable for both interior and exterior applications and is ideal for sealing around windows, doors, trim, baseboards, and other areas prone to gaps or leaks.

Latex Sealant has excellent adhesion to a wide range of surfaces, including wood, drywall, plaster, masonry, glass, metal, and most plastics. It is resistant to moisture, dust, and dirt and remains flexible even in fluctuating temperatures, ensuring a long-lasting seal that accommodates movement in the substrates.

This sealant is also highly resistant to UV degradation and can withstand exposure to sunlight, making it suitable for outdoor use. It is ideal for areas where traditional sealants may degrade over time, such as around window frames, door frames, and exterior joints. Additionally, Latex Sealant can be used to fill and smooth minor imperfections, such as small cracks and holes in walls, ceilings, and other surfaces.

Latex Sealant is an environmentally friendly choice for users looking for a low-VOC (volatile organic compound) product. It is easy to clean up with water, and any spills or excess product can be removed quickly. The sealant is also suitable for use in areas where indoor air quality is important, as it produces minimal fumes during application and curing.

Recommended Use

1. **Construction and Building Applications**: Latex Sealant is ideal for sealing gaps and joints in construction projects. It can be used for sealing around windows, doors, and other openings to prevent drafts, air leaks, and moisture infiltration. The sealant is highly effective for applications in both residential and commercial buildings.
2. **Interior Applications**: It is perfect for use in interior spaces, such as sealing cracks and gaps around baseboards, trim, and moldings. Latex Sealant is also used to fill minor imperfections in drywall, plaster, and other interior surfaces. Its paintable finish allows it to blend seamlessly with surrounding surfaces, providing a smooth and professional look after application.
3. **Exterior Applications**: For outdoor use, Latex Sealant is an excellent choice for sealing gaps and joints in exterior walls, windows, and doors. It can also be used to seal cracks in concrete and masonry, ensuring that water, air, and dirt do not enter the building. It is resistant to UV rays, preventing degradation and yellowing over time, making it perfect for long-term outdoor use.
4. **Automotive and RV Applications**: Latex Sealant is also suitable for sealing gaps and joints in automotive and recreational vehicles. It can be applied around windows, doors, and moldings to prevent water ingress and to enhance thermal efficiency. It is a popular choice for both new constructions and repairs.
5. **HVAC Applications**: The sealant is used in HVAC systems to seal joints, ducts, and connections, preventing air leaks and improving system efficiency. It ensures that heated or cooled air remains inside the ductwork, contributing to energy savings and system performance.
6. **General Maintenance and Repair**: Latex Sealant can be used for general maintenance and repair work in homes, offices, and industrial environments. It is ideal for filling cracks, holes, and gaps in

walls, ceilings, and around windows and doors. It is also used for minor repairs on plumbing systems, electrical installations, and other building systems.

Technical Data Specification

- **Colour**: White, Beige, Clear (Custom colors available)
- **Base**: Latex (water-based)
- **Curing Mechanism**: Air-dried (water evaporation)
- **Viscosity**: Paste
- **Specific Gravity**: 1.40-1.60 g/cm³
- **Shore A Hardness**: 15-25
- **Elongation at Break**: 100-200%
- **Temperature Resistance**: -20°C to +60°C
- **Solids Content**: 70-80%
- **Tensile Strength**: 0.4-0.6 MPa
- **Curing Time**: 24 hours for a full cure (depending on temperature and humidity)
- **Shelf Life**: 12 months (stored in a cool, dry place)
- **UV Resistance**: Good (resistant to fading and yellowing)
- **Water Resistance**: Moderate (for use in humid environments, not for submerged applications)
- **Paintability**: Yes, can be painted once fully cured
- **VOC Content**: Low, compliant with environmental standards

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Dosage, Addition & Method of Application

1. **Dosage**: The quantity of Latex Sealant required depends on the size of the joint, gap, or crack being sealed. Typically, for a standard 5mm bead, one cartridge can cover approximately 10-12 linear meters. For larger cracks or joints, more sealant may be necessary. Always measure the gap to determine the required amount.
2. **Addition**: Latex Sealant is supplied in ready-to-use cartridges or tubes. No mixing is required before application. Ensure that the surface to which the sealant is applied is clean, dry, and free from any dirt, dust, or grease. If necessary, wipe the area with a damp cloth and allow it to dry before applying the sealant.
3. **Surface Preparation**:
    - Clean the application area to remove dust, oil, grease, or any old sealant.
    - For smooth or glossy surfaces, lightly abrade them with sandpaper to improve adhesion.
    - Ensure the surface is dry before applying the sealant, as moisture can affect adhesion and curing.
4. **Application Method**:
    - **Step 1**: Cut the tip of the cartridge nozzle to the desired bead size, usually around 5mm for general applications.
    - **Step 2**: Insert the cartridge into a caulking gun and apply the sealant to the joint or crack by squeezing the trigger.
    - **Step 3**: Smooth the bead using a dampened finger or a smoothing tool to ensure an even finish and to push the sealant deep into the joint.
    - **Step 4**: Allow the sealant to cure for 24 hours. Full curing may take longer depending on the thickness of the application and environmental conditions.
5. **Post-Application**: After curing, Latex Sealant forms a flexible and durable bond that can be painted over to match the surrounding surface. Ensure that the sealant is completely dry before applying any paint. Once applied, the sealant maintains its flexibility, preventing cracking or shrinking.

Safety Instructions

1. **Handling**:
   - Always wear protective gloves during application to avoid skin contact.
   - Avoid inhaling vapors; ensure good ventilation in the application area.
   - Use safety glasses to prevent any sealant from getting into your eyes.
2. **Storage**:
   - Store Latex Sealant in its original, tightly sealed container, in a cool, dry place away from heat sources and direct sunlight.
   - Do not allow the sealant to freeze, as this may affect its performance.
   - Keep out of reach of children and pets.
3. **First Aid Measures**:
   - **Skin Contact**: Wash with soap and water. If irritation persists, seek medical attention.
   - **Eye Contact**: Rinse immediately with water for at least 15 minutes. If irritation persists, seek medical advice.
   - **Inhalation**: Move to fresh air immediately. If breathing difficulties occur, seek medical attention.
   - **Ingestion**: Do not induce vomiting. Rinse mouth with water and consult a doctor.
4. **Disposal**:
   - Dispose of unused sealant according to local waste disposal regulations.
   - Do not pour excess sealant into drains or water systems.
   - Once the sealant has cured, it can be disposed of as regular waste.

By adhering to safety guidelines and proper application methods, Latex Sealant provides an effective, flexible, and long-lasting solution for sealing gaps, cracks, and joints in various applications. Its ease of use, environmental benefits, and ability to be painted over make it a top choice for both professional and DIY projects.