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Acrylic Coating Technical Data Sheet

Product Description

Acrylic Coating is a high-quality, water-based protective coating designed to provide excellent durability, weather resistance, and UV stability. It is formulated with a premium grade acrylic resin, offering superior adhesion and a flexible finish that protects surfaces from harsh environmental conditions. This coating is ideal for both interior and exterior applications, providing long-lasting protection against weathering, cracking, fading, and water damage.

The versatile nature of Acrylic Coating makes it suitable for a wide range of substrates, including wood, metal, concrete, masonry, and previously painted surfaces. Its fast-drying properties make it highly efficient, allowing for quick turnaround in commercial, industrial, and residential projects. The finish achieved with Acrylic Coating is smooth and aesthetically pleasing, providing a semi-gloss or satin appearance that enhances the visual appeal of surfaces.

Acrylic Coating is resistant to mildew, mold, and algae growth, making it suitable for use in areas with high humidity or moisture levels. The coating's water-repellent properties help in preventing the penetration of rain or humidity, ensuring the longevity and integrity of the surface beneath. Additionally, it is non-toxic, odorless when dry, and easy to clean up with soap and water, making it a safe and environmentally friendly option for both professional and DIY applications.

Recommended Use

1. **Exterior Applications**: Acrylic Coating is ideal for use on the exteriors of buildings, providing a protective layer against environmental elements such as rain, wind, and sunlight. It is particularly effective on stucco, concrete, brick, and wood surfaces, where it guards against weather-induced damage like fading, cracking, and peeling.
2. **Roof Surfaces**: It can be used to coat and protect roof surfaces, including flat roofs, sloped roofs, and metal roofing systems. Acrylic Coating provides a water-resistant layer that helps in preventing leaks and extends the life of the roof by protecting it from UV rays, rain, and other weather-related wear.
3. **Masonry & Concrete Protection**: Acrylic Coating is perfect for masonry surfaces, including concrete floors, walls, and outdoor structures. It seals porous materials, preventing water absorption, which can lead to the degradation of surfaces over time. The coating also offers resistance to efflorescence and stains.
4. **Wood & Metal Surfaces**: It can be applied to wood surfaces to protect them from rot, decay, and UV damage, while maintaining their aesthetic appeal. For metal surfaces, Acrylic Coating prevents rust and corrosion, offering long-term protection against moisture, salt, and air exposure.
5. **Garage Doors & Metal Siding**: Acrylic Coating is commonly used on metal garage doors and siding to maintain the aesthetic appeal of the surface while offering protection from the elements. It provides a smooth, durable finish that resists chipping and fading, and its flexibility ensures it won't crack under stress.
6. **Interior Surfaces**: Acrylic Coating can also be used indoors to protect surfaces such as walls, ceilings, and trim. It provides a clean and smooth finish, suitable for both high-traffic areas and decorative spaces. It's particularly useful for spaces that require frequent cleaning, as it resists stains and can be wiped clean easily.
7. **Industrial Equipment & Machinery**: Acrylic Coating can be used to protect industrial equipment, machinery, and parts exposed to harsh conditions. It helps to prevent corrosion, rust, and wear, ensuring the longevity of machinery in high-humidity or outdoor environments.

8. **Marine Applications**: Acrylic Coating is also suitable for use on boats, docks, and other marine structures to protect them from the damaging effects of water and salt exposure, making it ideal for coastal areas.
9. **Automotive & Transportation**: Acrylic Coating is often applied on vehicles, trailers, and RVs to protect the surface from dirt, road salts, UV damage, and to maintain a shiny, new appearance for longer periods.

Technical Data Specification

- **Colour**: White, beige, gray (custom colors available)
- **Finish**: Semi-gloss or satin
- **Viscosity**: 90–100 KU (Krebs Units)
- **Specific Gravity**: 1.1–1.3 g/cm³
- **pH**: 8.0–9.0
- **Flash Point**: Non-flammable
- **Coverage**: 10–12 m² per liter per coat (depends on the surface texture)
- **Drying Time**: Touch dry in 30 minutes; fully cured in 24 hours
- **Adhesion**: Excellent adhesion to most surfaces
- **Heat Resistance**: Up to 120°C (248°F)
- **Water Resistance**: Excellent
- **UV Stability**: High
- **Chemical Resistance**: Resistant to mild acids, alkalis, and salts
- **Volume Solid**: 45–50%
- **Solvent Content**: < 10%

Dosage, Addition, and Method of Application

1. **Dosage**:
    - The recommended coverage is between 10 and 12 square meters per liter per coat. This coverage may vary depending on the texture and porosity of the surface being coated. For highly porous surfaces like concrete, it is advised to apply two coats for maximum protection and durability.
2. **Addition**:
    - **Pigments**: Custom colors can be achieved by adding compatible pigments to the base Acrylic Coating. Ensure thorough mixing to obtain an even and uniform color.
    - **Thinning**: If required, the coating can be thinned using water (up to 10% for spray application). For brush or roller application, thinning is usually not necessary, but it may be adjusted based on the application technique or climate conditions.
    - **Additives**: No specific additives are required for standard applications. However, for special conditions, like extreme weather or exposure to aggressive chemicals, specific additives may be used.
3. **Method of Application**:
    - **Surface Preparation**: Clean and prepare the surface to be coated by removing all dust, dirt, grease, oil, and any previous coatings that may cause adhesion issues. Smooth surfaces like glass or metals may require light sanding to improve adhesion.
    - **Mixing**: Stir the product thoroughly before application to ensure a consistent mixture. If using a custom color or additive, ensure that it is well-blended into the base coating.
    - **Application by Brush or Roller**:

- For small to medium areas, apply the coating with a brush or roller. Use a high-quality synthetic brush for trim and edges, and a medium to short nap roller for flat or large surfaces.
- Apply the coating in long, even strokes to avoid roller marks and ensure uniform coverage. Overlap each stroke to ensure an even distribution.
- For best results, apply two coats for enhanced durability, ensuring the first coat is completely dry before applying the second.

- **Spray Application**:
  - For larger surfaces, a spray application method may be preferred. Use an airless spray gun and adjust the nozzle to a fine, even spray pattern. Maintain a spraying distance of 12–18 inches from the surface and apply the coating in light, overlapping passes.
- **Drying and Curing**:
  - Allow the first coat to dry for 30 minutes at room temperature before applying the second coat. Full curing will occur within 24 hours, although light use of the surface can typically begin after 4-6 hours.
- **Cleaning**:
  - Clean brushes, rollers, and spray equipment immediately after use with warm, soapy water. Ensure that no dried material remains in the equipment to ensure ease of use for future applications.

Safety Instructions

1. **Handling**:
   - Always wear appropriate personal protective equipment (PPE), including gloves, goggles, and a respirator when handling Acrylic Coating, especially when applying it in confined spaces.
2. **Ventilation**:
   - Ensure the area is well-ventilated during application and curing to avoid inhalation of any vapors. Use exhaust fans or open windows for adequate airflow, particularly in enclosed spaces.
3. **First Aid**:
   - **Skin Contact**: Wash thoroughly with soap and water if contact occurs. If irritation persists, seek medical attention.
   - **Eye Contact**: Flush with plenty of water for at least 15 minutes. If irritation continues, seek medical attention.
   - **Inhalation**: Move to fresh air immediately. If symptoms persist, seek medical attention.
   - **Ingestion**: Do not induce vomiting. Rinse mouth with water and seek medical attention if large quantities are ingested.
4. **Storage**:
   - Store the coating in a cool, dry place, away from direct sunlight, heat, or open flames. Ensure the lid is tightly sealed to avoid contamination or evaporation.
5. **Disposal**:
   - Dispose of any unused product and containers in accordance with local regulations. Do not dispose of in drains, waterways, or general waste.
6. **Fire Hazards**:
   - Acrylic Coating is non-flammable, but standard fire precautions should still be observed, especially when using solvents or other materials nearby.

Acrylic Coating provides an excellent, versatile solution for protecting a wide range of surfaces from environmental damage, enhancing durability, and improving aesthetics with minimal effort.