



Toughened Emulsion Technical Data Sheet

Product Description

Toughened Emulsion is a premium, high-performance water-based paint specifically designed for interior and exterior surfaces that require a durable, long-lasting finish. It combines superior flexibility with exceptional resistance to wear, making it ideal for high-traffic areas and surfaces that are exposed to harsh conditions. Formulated with advanced polymers, this emulsion provides a highly robust surface that resists cracking, chipping, and peeling. The result is a paint that delivers superior protection and excellent aesthetic quality for a wide range of surfaces.

The key feature of Toughened Emulsion is its enhanced toughness, which makes it ideal for environments where durability is critical. It offers superior resistance to abrasion, stains, and dirt, and can withstand frequent cleaning without losing its finish. Its excellent adhesion properties ensure that it bonds securely to a variety of substrates, including concrete, plaster, drywall, and wood. This emulsion is also formulated with a smooth, even texture, which gives it a professional, refined appearance, whether used on walls or ceilings.

Toughened Emulsion is available in a wide array of colors, allowing for versatile design options. The paint features a low VOC (volatile organic compound) content, making it an environmentally friendly choice, and it complies with the latest environmental standards for indoor air quality. With a quick-drying formula, it ensures minimal disruption during application, allowing for faster project completion without sacrificing quality. Whether used in residential, commercial, or industrial applications, Toughened Emulsion is the ideal choice for projects that demand both beauty and performance.

Recommended Use

- 1. High-Traffic Areas:**
Ideal for use in areas with heavy foot traffic such as hallways, staircases, and corridors. Its abrasion resistance makes it perfect for environments where the paint is subject to constant wear and tear, ensuring the walls remain pristine for longer.
- 2. Commercial and Industrial Use:**
Perfect for commercial spaces like offices, schools, hospitals, retail environments, and factories. It can withstand the daily demands of high-traffic public spaces, providing an easy-to-clean surface that maintains its finish even with frequent use.
- 3. Residential Use:**
Suitable for high-demand areas in homes such as kitchens, bathrooms, and children's rooms. The emulsion's resistance to stains and ease of cleaning make it an ideal choice for spaces that need to look fresh and clean with minimal upkeep.
- 4. Exterior Applications:**
While primarily designed for interior surfaces, Toughened Emulsion can also be used on exterior walls where moderate exposure to weather elements is expected. It provides a tough, protective finish that resists dirt and moisture, making it suitable for exterior walls that need to withstand the rigors of outdoor conditions.
- 5. Surface Protection:**
Toughened Emulsion is perfect for surfaces that require additional protection against impacts, cleaning agents, or stains. Its highly durable nature makes it ideal for environments that demand both aesthetic appeal and functionality.
- 6. Residential & Commercial Renovations:**



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Email: support@spakslube.com | Website: www.spakslube.com

For projects that involve repainting older homes or commercial buildings, Toughened Emulsion is an excellent option to breathe new life into worn-out walls while providing enhanced durability that outperforms traditional emulsions.

7. Institutional Buildings:

Its tough, easy-to-maintain finish makes it a top choice for institutions like schools, universities, and hospitals, where both durability and hygiene are essential. It helps maintain a clean and attractive appearance in these spaces for longer periods.

Technical Data Specification

- **Colour:** Available in a wide range of shades
- **Finish:** Matt or satin
- **Viscosity:** Medium to high
- **Specific Gravity:** 1.3–1.5 g/cm³
- **Gloss Level:** Low to medium
- **VOC Content:** <50 g/L
- **Drying Time:** Touch dry in 30 minutes; recoat after 4-6 hours
- **Coverage:** 10-12 m² per liter (depending on surface texture)
- **Shelf Life:** 12 months in unopened container

Dosage, Addition, and Method of Application

1. **Dosage:**
 - Coverage rates are approximately 10–12 m² per liter, depending on surface texture and porosity. For rough or textured surfaces, additional coats may be required for full coverage.
2. **Addition:**
 - The paint is supplied in a ready-to-use form and does not require dilution under normal application conditions. However, for spray applications or particularly porous surfaces, up to 5% clean water may be added.
 - **Mixing:** Stir the paint thoroughly before use to ensure that the pigments are evenly dispersed. This helps maintain consistent color and ensures proper application.
3. **Method of Application:**
 - **Surface Preparation:**
 - Clean the surface thoroughly to remove any dust, grease, or loose particles. For new surfaces like plaster or concrete, allow them to fully cure before application.
 - Sand down any rough patches on previously painted surfaces to ensure smooth adhesion.
 - Use a suitable primer if the surface is highly porous or stained.
 - **Application by Brush:**
 - Apply the emulsion using a high-quality synthetic bristle brush. Start by cutting in along edges and corners. Use long, even strokes to cover small areas, avoiding excessive brushing to maintain the smooth finish.
 - **Application by Roller:**
 - Use a medium to short nap roller (3/8" to 1/2") to apply the paint to larger areas. Begin by loading the roller with a moderate amount of paint and apply in an "M" or "W" pattern to ensure even coverage. Follow with long, straight strokes to eliminate roller marks.
 - **Application by Spray:**



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- For spray applications, the paint can be thinned with up to 5% clean water to achieve the correct consistency. Use a spray gun designed for water-based paints, maintaining a consistent distance from the surface to achieve even, smooth coverage.
- **Drying and Curing:**
 - Allow the first coat to dry for 4-6 hours before applying a second coat. Full curing takes approximately 7 days, after which the paint reaches its optimal durability.
- 4. **Post-Application Care:**
 - Clean brushes, rollers, and spray equipment with warm water immediately after use. If the paint has dried on tools, use a paint remover or brush cleaner.
 - Dispose of any leftover paint according to local disposal regulations. Do not pour excess paint down drains or into watercourses.

Safety Instructions

1. **Handling:**
 - While Toughened Emulsion is non-toxic, wear gloves and protective eyewear during application to avoid irritation. In case of skin contact, wash thoroughly with soap and water.
 - Ensure good ventilation when applying in enclosed spaces. Open windows and doors to allow air circulation.
2. **Storage:**
 - Store in a cool, dry place, away from heat sources and direct sunlight. Keep containers tightly closed when not in use.
 - Do not store at temperatures below 5°C or above 35°C.
3. **First Aid:**
 - **Eye Contact:** Flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
 - **Skin Contact:** Wash affected area with soap and water. If irritation continues, seek medical advice.
 - **Inhalation:** Move to fresh air immediately. Seek medical attention if symptoms persist.
 - **Ingestion:** Rinse mouth with water and seek medical attention if necessary.
4. **Disposal:**
 - Dispose of paint containers in accordance with local recycling and waste disposal regulations. Do not dispose of paint in drains or watercourses.
 - For large quantities of leftover paint, contact a licensed disposal facility.
5. **Other Precautions:**
 - Keep out of reach of children.
 - Avoid prolonged inhalation of vapors, and always apply in well-ventilated areas.

This technical data sheet provides comprehensive information to ensure that users get the best results from Toughened Emulsion, whether for residential, commercial, or industrial applications. The product combines aesthetic quality with high durability for superior performance over time.