HULK SEMI-FLEXIBLE MASTIC
FLEXIBLE EPOXY ADHESIVE GEL

HULK SYSTEMS

PRODUCT DESCRIPTION

Hulk Semi-Flexible Mastic® is a versatile, 100% solids, two-component, urethane-modified adhesive gel designed to deliver exceptional performance in waterproofing, bonding, and repair applications. This innovative product provides a flexible, durable seal for indoor, outdoor, and submersible use. It is ideal for metal roofs, secondary slab bonding, and critical applications like filling seams and penetrations in **ICF wall systems and ICF pools**. Hulk Semi-Flexible Mastic® effectively seals around roof hardware and overlap joints to prevent leakage caused by rainfall and ice-damming, offering superior flexibility and strength in demanding environments.

USES

Hulk Semi-Flexible Mastic® is suitable for a wide variety of applications, including:

- **Filling and Bridging Cracks:** Effectively fills large cracks and voids in concrete, structurally insulated panels, home sheathing, porches, balcony decks, and swimming pools.
- **Metal Roofs:** Seals around roof hardware and overlap joints to prevent leakage from rainfall and ice-damming.
- **Secondary / Secondary Slab Bonding:** Bonds engineered wood, concrete, and other materials seamlessly. Perfect for high-movement joint applications.
- **ICF Wall Systems and ICF Pools:** Creates watertight seals for seams, pipes, electrical conduit, penetrations, and cold joints in ICF structures.
- **Multi-Material Bonding:** Bonds diverse substrates, including glass, metal, foam, concrete, wood, fiberglass, and plastics.
- **Repairs:** Perfect for concrete, plastic, marine, and plumbing applications.
- **Tile Bonding:** Adheres vinyl tiles to concrete, wood, and fiberglass-reinforced surfaces.

CHARACTERISTICS / ADVANTAGES

- **100% Solids, Zero VOCs:** Non-toxic and environmentally friendly.
- **Outstanding Flexibility:** Maintains performance in high-movement areas without causing undue stress on substrates.
- **Excellent Adhesion:** Bonds effectively to a wide range of materials.
- **Durable and Resilient:** Resists moisture, weather exposure, and temperature extremes.
- **Thermal Shock Resistance:** Handles rapid temperature changes without cracking or failure.
- **Excellent Impact Resistance:** Withstands heavy loads and mechanical impact.
- **Will Not Harden at Low Temperatures:** Retains flexibility and performance even in cold conditions.
- **Highly Resistant to Water, Salt, and Chemicals:** Provides long-term durability in harsh environments.
- **Eliminates Nailing:** Reduces noise transmission in high-rise or institutional buildings by bonding materials without nails.
- **Fills Holes and Voids Without Shrinkage:** Ensures a seamless, long-lasting repair or bond.
- **ICF-Specific Features:** Protects critical connections and prevents water infiltration in ICF wall systems and pools.
- **Easy Application:** Simple 1:1 mixing ratio for efficient use.

TECHNICAL DATA

PROPERTY	DETAILS
Appearance/Color	Light amber gel (mixed)
Pot Life (Working Time)	15 minutes
Mixed Weight	1.07 kg/L (8.9 lb./U.S. gal)
Coverage	2.0 m^2/L (81.5 ft^2/U.S. gal)
Shelf Life	24 months in original, unopened packaging
Storage Conditions	Store dry at 60–95 °F (16–35 °C)
Packaging	Component A: 1-gallon gel; Component B: 1-gallon clear liquid

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APPLICATION INSTRUCTIONS

Surface Preparation

- **ICF Wall Systems and Pools:** Ensure seams, cold joints, and penetrations like pipes and electrical conduits are clean, dry, and free of contaminants. Remove any debris from seams and joints.
- **Concrete Walls:** Concrete should be sound and free of dust and all foreign contaminants.
- **Concrete Floors:** Clean thoroughly by acid etching or shot blasting. Remove all curing compounds and ensure the surface is sound.
- **Wood:** Sand to bare wood and remove all loose fibers, paint, and dust.
- **Steel:** Degrease and mechanically abrade to expose a bright, clean surface.
- **Plastics:** Abrade to fresh surfaces, then degrease thoroughly.

Mixing And Application

- Mix equal parts of Component A and Component B using a slow-speed drill until the mixture is uniform in consistency.
- Apply the adhesive directly to the prepared surface using a plastic putty knife or silicone coving tool. Ensure even coverage across the application area.
- Plural sealant guns may also be used.
- Allow at least 6 hours for curing before applying additional coatings or finishes.
- Product can be thinned using Xylene, but **DO NOT THIN** if intended use is on foam or plastic surfaces.

Limitations

- Not suitable for rigid bonding or structural framing.
- Avoid direct sunlight during application; work within the product's pot life.
- Ensure surfaces are dry before application.

CLEAN-UP

- Clean tools and equipment with a non-air-polluting solvent like xylene before the material cures.

DISCLAIMER

Hulk Systems Inc. ensures the quality and performance of Hulk Semi-Flexible Mastic® when used according to guidelines. While the product is designed to deliver consistent results, outcomes may vary based on specific site conditions and application methods.

Liability is limited to the replacement of the product or a refund of the purchase price in the rare case of a defect. Hulk Systems Inc. excludes coverage for labor costs, consequential damages, or improper application. For optimal results, users should adhere to all preparation and application instructions provided.

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