

# Technical Data Sheet

## *HiCrete Gloss Sealer - AC*

*A high solid, clear acrylic sealer and water repellent for concrete & brick surfaces.*

### **Product Description:**

*HiCrete Gloss Sealer AC is a high performance acrylic sealer, which leaves a protective membrane on the concrete surface that both waterproofs and seals. It contains no silicones, waxes, or oils, and does not chip or peel when applied properly. Formulated with methyl methacrylate copolymer resins, aromatic solvents, and special additives which result in an extremely tough acrylic surface that has many special qualities. HiCrete Sealer penetrates deep into the concrete pores providing unusual durability and protection. Treated surfaces shed water, dirt, soot and chemical contaminants to prevent staining and moisture damage to the matrix. It will also enhance the color of integral colored concrete or exposed aggregate concrete by giving it a "wet glossy look". Because of the unusual characteristics of this formulation, it may be used for many different applications.*

### **Advantages:**

- Brightens and weatherproofs exposed aggregate walls and sidewalk areas.*
- Dries hard - will not attract dirt, airborne dust or grime.*
- Reduces moisture entry into concrete surfaces and helps prevent efflorescence.*
- Is quick drying - dry to touch in 30-40 minutes.*

### **Basic Uses:**

*HiCrete Sealer is widely used on concrete and brick substrates to protect against soiling by airborne contaminants or other materials, which by absorption would cause unsightly substrate discoloration. HiCrete Sealer offers surface protection plus water repellency and color enhancement.*



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### ***Patterned & Stamped Concrete:***

*It is particularly effective on textured patterned concrete surfaces where the irregular texture pattern readily traps dirt and other particles causing discoloration.*

### ***Decorative Polymer Concretes:***

*Provides a high performance, tough, durable, protective, topcoat seal. Enhances the color of surfaces and provides additional chemical and abrasion protection.*

### ***Concrete Pavers:***

*Brings out color & protects paver from fading or color change due to weathering. Helps seal against spillage.*

### ***Light Weight Concrete Block:***

*Penetrates into concrete block pores for in-depth protection against moisture. Retards the moisture exchange in concrete that brings soluble concrete salts to the surface.*

### ***Architectural Concrete:***

*Reduces lime leaching which can etch tinted colored glass, aluminum, etc. Brings out the fresh wet look color of aggregates.*

### ***Composition and Materials :***

*Methyl methacrylate copolymer resins, aromatic solvents and proprietary additives.*



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### **Technical Data:**

#### **Chemical Resistance**

- 10% - Sulfuric Acid : Excellent\*
- 10% - Hydrochloric Acid : Excellent\*
- 10% - Nitric Acid : Excellent\*
- 40% - Sodium Hydroxide : Excellent\*
- 100% - Vegetable Oil : Excellent\*
- 100% - Mineral Oil - Excellent\*
- Aliphatic Solvents : Good\*
- Hydraulic Oil : Poor
- Aromatic Solvents : Poor
- Gasoline : Poor

#### **Engineering Data**

- Solids : Clear liquid - No color
- Flash Point : 29-30% by weight
- Weight per Ltr : 26.70C - TCC
- Viscosity : 0.92-kg. /ltr
- Dry Time : 18 Sec. 4 Ford Cup
- Light Traffic - 8 Hours
- Normal Traffic - 48 Hours
- Max. Hardness - 7 Days

### **Intallation:**

*Proper handling precautions MUST be followed. The conditions of your use, job application of our product, information (whether verbal or written) including any suggested recommendations are beyond our control; therefore it is imperative that you test our product and information to determine to your own satisfaction whether it is suitable for your intended use and application. This application and specific analysis at least must include testing to determine suitability from a technical as well as health, safety, and environmental standpoint.*

### **Surface Preparation:**

*Surfaces must be thoroughly cleaned and dry. Remove all dirt, waxes, poorly bonded paints or coatings, efflorescence, laitance and any other foreign material. Apply test to determine bond and compatibility.*



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### **Test for Moisture:**

*Before Hicrete Sealer can be applied, the presence of moisture in the concrete substrate should be checked by using an 18" (450 mm) square 2-mil plastic sheet. Clean all dust and oils off of the concrete. Tape down the square plastic film with duct tape on all 4 sides, making sure the perimeter is totally sealed. The plastic should remain on the surface for at least 48 hours. When removed, the plastic and concrete should be dry and free of moisture. Any darkening of the concrete in the test area indicates high presence of moisture. If the area is contaminated with moisture, do not apply Hicrete Sealer.*

### **Application Method:**

*Concrete surfaces that are hard or smooth troweled, the 1st coat should be thinned or reduced 50% with Xylene. This allows for better penetration. Apply with spray, brush, roller, or lamb's wool applicator. On smooth concrete use spray, lamb's wool applicator or short-nap roller. On rough concrete (broomed or textured) use spray, brush, or long-nap roller.*

***Caution- Rollers tend to incorporate air into the product during application especially with excessive rolling.*** Apply like a lacquer to form a continuous film on the surface without thick or ponded areas. If necessary to brush apply, take care to flow material on surface evenly. Over brushing can cause foaming/pinholes.

*To ensure proper application with sprayers, use only clean or new industrial grade sprayer equipped with a non-adjustable fan tipped nozzle, neoprene hose and gaskets. Maintain sufficient pump pressure throughout application. Uniform surface coverage is essential, avoid paddling in low areas. If material starts to come out in a stream, versus a fog, or starts to come out in spits and sputters, the nozzle has become clogged. Stop immediately and clean nozzle with lacquer thinner before proceeding. Clean the sprayer immediately after use with a lacquer thinner flush.*

### **Texturing Additive:**

*Rhino-Grip® is a micronized crystalline polymer that is specially machined to provide a unique texturizing (slip resistant) aggregate for Hicrete Sealer. The particle size is carefully controlled to produce a uniform moderate textured type surface. The rounded shape of Rhino-Grip® particles will provide optimum abrasion resistance without irritating sharp edges thus allowing for easier surface cleaning than other aggregate textured surfaces. Rhino-Grip® is gentle to bare feet when compared to silica texturing type aggregates making it a high priority item for pool decks and patio areas.*



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### **Clean Up:**

*Clean brushes, tools, sprayers, rollers and other equipment with lacquer thinner, toluene, or xylene.*

### **Warning**

*- Combustible: contains mineral spirits and aromatic solvents. In case of fire use CO2 dry chemical or universal type foams. Cool closed containers with water.*

*- The skin of some people may be sensitive to the solvents used and in such cases protective gloves or creams should be worn and if necessary face protection.*

### **First Aid**

#### **Eye Contact:**

*Hold eyelids open and immediately flush with plenty of lukewarm water for at least 15 minutes and call a physician.*

**Skin Contact:** *Wash thoroughly with soap and water. If irritation persists, seek medical aid.*

**Inhalation:** *Remove from exposure; administer oxygen if breathing is difficult.*

**Ingestion:** *Do not induce vomiting. Small amounts of liquid aspirated into lungs may cause serious pulmonary injury.*

### **Safety Equipment:**

*Solvent resistant gloves, goggles and if applied in areas of poor or inadequate ventilation, use mine safety mask and canister.*

### **Coverage:**

*800 -1000 Sqft. per 25 ltr drum depending upon usage. Coverage varies with texture and porosity of surface.*

### **Packaging:**

*25 ltr drum Empty containers may contain explosive vapors or residues. Do not cut or weld empty container. Retighten bungs on drums immediately after each use to avoid contamination.*



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## **Hicrete Gloss Sealer - AC**

### **WARRANTY NOTICE**

#### **DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY:**

*HICRETE DECORATIVE SYSTEMS PVT. LTD (Seller) warrants that if any goods supplied prove defective in workmanship or material, that Seller shall replace them or refund their purchase price. THIS WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND/OR FITNESS, WHICH ARE HEREBY DISCLAIMED. IT IS UNDERSTOOD AND AGREED THAT BUYER'S SOLE REMEDY, AND THEREFORE SELLER'S LIABILITY, WHETHER IN CONTRACT, TORT, UNDER ANY WARRANTY, IN NEGLIGENCE, OR OTHERWISE SHALL BE LIMITED TO THE RETURN OF THE PURCHASE PRICE PAID BY PURCHASER OR REPLACEMENT OF ANY DEFECTIVE GOODS SOLD BY SELLER AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. THE PRICE STATED FOR THE GOODS IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY. Any liability or risk resulting from the use of this product is assumed by the PURCHASER/USER except where a specific warranty is provided by the manufacturer in writing. Before application, the PURCHASER USER shall determine the suitability of the product for his intended use and PURCHASER USER assumes all liabilities and risks whatsoever in connection therewith. The terms of this WARRANTY NOTICE may not be orally modified. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.*

#### **Limitations:**

***Do not apply to wet or damp surfaces, this will cause poor bonding and a milky or frosty appearance. Hicrete Sealer is not to be used as a concrete curing compound as it is not compatible with damp surfaces.***

*Although Hicrete Sealer is a clear, film, any clear coating can change the light refraction characteristics of the surface giving the visual effect of a slight color change. Differences in porosity and non-uniformity of application on smooth masonry/concrete might affect the even distribution of Hicrete Sealer. Application will give the colored surface a glossy wet look and will generally deepen the color. It will accentuate color variations or trowel burns. Always coat a test area to determine acceptability and to assure desired aesthetic results. Hicrete Sealer does not promote slippage when used on a textured surface. However, water and other liquids when retained on a smooth treated surface will increase the slip potential to some degree. Hicrete Sealer is flammable and toxic in the liquid state. If interior surfaces are being coated (especially if spray equipment is being used) the application area should be well ventilated. Open foods, meats, vegetables and dairy products may pick up the solvent odors when applied Hicrete Sealer is drying. All food stuffs should be removed prior to application and until the sealer has had time to fully dry. On new masonry surfaces do not apply Hicrete Sealer until concrete has been totally cured and moisture is no longer present especially at the surface level. On thin toppings this may be a 24 hour time frame, for 4" (100 mm) thick concrete the time frame may be 28 days or longer. Applying Hicrete Sealer to a wet or damp surface will cause poor bonding and a milky white or frosty appearance. If applied too heavily, the coating will cure with a milky appearance and the transparency will be impaired. If the excessively applied coating is exposed to rain or flowing water prior to full cure it will turn milky. Prolonged exposure to moisture or water may result in a temporary milky appearance, which clears upon drying. This is particularly true on textured or stone surfaces. Application temperature should be 300 C and rising. Use adequate ventilation. Ventilation system should be capable of exchanging total air volume in application area in 30 minutes or less. Avoid prolonged or repeated breathing of vapor or spray mist.*



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### **Product Liability:**

*Hicrete Decorative Systems products are designed to be used in the construction industry and should be applied by competent persons in accordance with current published instructions. Technical advice and recommendations as to the suitability of product for any particular use are made in good faith. However, we have no control over the conditions under which our products are transported to, stored, handled or used by the customer. We cannot be held responsible for difficulty caused by other materials and conditions, or by inferior workmanship. Hicrete Decorative Systems recommends that the customer satisfy themselves as to the product's actual suitability for its intended purpose.*

*\*Good maintenance is essential in areas where chemical spillage is likely to occur. It is especially important that such chemical spillage should not be allowed to dry as higher concentrations of chemicals become involved. Hicrete Sealer will offer temporary protection to aliphatic solvent spillages but is not designed for areas where continuous spillage of petroleum products (gasoline, hydraulic oils, etc.) may be expected.*

*HICRETE DECORATIVE SYSTEMS PVT. LTD. reserves the right to have the true cause of any difficulty determined by accepted test methods by an independent party. Any claim regarding product defect must be received in writing 1 year from day of shipment. No claim will be considered without such written notice or after the specified time interval.*

