Metacrylics® High Solids SILICONE

Roof Restoration System / Technical Data Sheet

IMPORTANT APPLICATION INFORMATION

SURFACE PREPARATION Surfaces should be clean, dry, free of dust, dirt and oily residues. Remove loose rust from metal, and wipe new galvanized metal with acidic acid solution prior to application. Metacrylics Primer is recommended for all surfaces. New concrete must be fully cured. New glazed asphalt and torch-down single-ply assemblies should wait 6 months or more before application.

MIXING: Review all technical data sheets, system sheets, labels, instructions, MSDS, and Guide Specifications before mixing and applying. Mix 55 gallon (208.2 liter) drums and 5 gallon (18.93 liter) pails with a variable speed drill utilizing a jiffy mixer to suspend any settled pigments until a uniform color and consistency is achieved. Mixing time will vary based on temperature and atmospheric conditions.

WEATHER RESTRICTIONS It is not recommended that this product be applied at temperatures below 40°F (4.4°C), or if rain is expected within 1 hours of application. Metacrylics® High Solids Silicone may be applied at lower temperatures; however the cure time will be extended.

APPLICATION EQUIPMENT This product may be sprayed, brushed, rolled, or applied with notched squeegee. Due to the high viscosity of the material, a high-pressure airless paint pump capable of producing a minimum of 3500 PSI at the spray gun head should be used. The pump should have a minimum of 3 gallons per minute output and be fed by a 5:1 transfer pump to prevent cavitation. Always use components rated for pump pressure. Hoses should be BUNA-N jacketed for prevention of moisture contamination. Hoses should have a minimum I.D. of 3/4" and an adequate working pressure. The spray gun should be high pressure (5000 PSI) with reverse-a-clean spray tip, having a minimum orifice of .030 and a 50° fan tip.

DO NOT USE hose that has been used for Acrylics or other waterborne coatings because the liner absorbs moisture and initiates the silicone cure process.
SYSTEM OPTIONS: This product can be used as a topcoat over polyurethane elastomeric base coats where improved traffic and impact resistant characteristics are required.

APPLICATION: Prior to coating any surface, be sure the coating will adhere by performing an adhesion test (ASTM D-903). Coating may be applied by brush, roller notched squeegee, or airless spray equipment. Do not apply when temperatures are below 40°F (4.4°C) or when precipitation is in forecast within 48 hours. In areas where the roof is subject to foot traffic, it is recommended to apply walkway pads for added protection and slip resistance.

SPRAY APPLIED: Spray application is not recommended below 40°F (4.4°C).

RECOATING PROCEDURES This product may be used to re-coat existing spray-in-place roofing systems. Surface to receive recoat must be thoroughly cleaned using power scrubber, pressure washer, chemical cleaners, or air wand. Surface must be completely dry before applying re-coat.

STORAGE

Keep containers closed and store in a dry, cool place away from heat, sparks, open flame, excessive heat, and moisture. Keep material stored above 65°F (18°C). Open containers should be blanketed with dry nitrogen before resealing. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors or other ignition sources at locations distant from the material-handling point. Never use a welding or cutting torch on or near the drum. In case of fire, use CO_2, steam, dry chemicals or water fog.

SAFETY PRECAUTIONS

Review the Material Safety Data Sheets (MSDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

VAPOR INHALATION

The best form of protection against organic solvents or potentially sensitizing vapors in the workplace is a fresh air supply. Numerous manufacturers, including the 3M Company and MSA, make full face fresh air masks. For maximum protection, we recommenduse of NIOSH/MSHA approved self-contained breathing apparatus with a full-face piece operated in a positive pressure mode. In well-ventilated application conditions, the use of Type C organic vapor cartridge respirators is acceptable.

SKIN CONTACT

To prevent excessive skin contact with the sprayed product, we recommend use of fabric coveralls and neoprene or other resistant gloves.

EYE CONTACT

Wear a full-face mask or OSHA-approved protective goggles.

CLEAN UP

Cleanup of spray equipment containing uncured material may be accomplished by flushing with VM&P Naphtha or mineral spirits. Metacrylics® High Solids Silicone cures by reacting with moisture and should not be left in spray guns, pump equipment and hoses for prolonged periods unless equipment contains moisture lock hoses, fittings and seals. Equipment without these components will transmit sufficient moisture vapor to gradually form cured material on hose walls and at unsealed connections potentially causing an increase in operating pressure and material flow restriction.

ADDITIONAL INFORMATION

Please read all information in the general guidelines, technical data sheets, application guide, and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your Metacrylics representative or visit our metcarylics.com for current technical data and instructions.

FIRST AID CONSIDERATION

Vapor inhalation problems are characterized by coughing, shortening of breath and tightness in the chest. Anyone exhibiting these types of symptoms should be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY. Effects of overexposure to vapor are characterized by nasal and respiratory irritation, dizziness, nausea, headache, fatigue, possible unconsciousness or even asphyxiation. If ingested and the victim is conscious, give large amounts of water or milk to drink. Obtain medical attention immediately. Skin contact with liquid components can result in a rash or other irritation. Wash the affected skin area with water. Wipe residual liquid from the skin with a clean cloth, then wipe the affected area with 30% solution of rubbing alcohol. Follow the alcohol wipe with repeated washings with soap and water. If a rash or other irritation develops, see a physician. Eye contact with liquid or sprayed components can result in corneal burns or abrasions. Upon exposure, eyes should be flushed with water for an extensive period. SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.