



Pond Armor™

NOTICES

Metacrylics® products must be applied and installed according to written specifications from the manufacturer. Metacrylics® assumes no liability for failures of this roof/deck system resulting from deviation from manufacturer's written specification, poor workmanship, or delamination of an existing underlying roof/deck membrane. The manufacturer makes no warranty of any kind, express or implied, concerning this roof/deck system, if it is not used according to manufacturer's specifications.

SOURCES

Presented Above Are: ASTM and FTMS performed by Underwriters Laboratories, Inc., Cal Coast Laboratories, Inc., Harlan Associates, Inc., State of Calif. Dept. of Transportation (Division of Structures and Engineering Services) Office of Transportation Laboratory, Sacramento, CA; State of Calif. Air Resources Board, Sacramento, CA; State of Calif. Dept. of Health; State of Calif. Bay Area Air Pollution Control Dist.; field experience of construction contractors and California Builder & Engineer. Metacrylics® is not responsible for any changes in the above data due to discovered data or changes in the listed tests.

MANUFACTURER

Metacrylics®
365 Obata Court
Gilroy, CA 95020
Office: (408) 280-7733
fax: (408) 280-6329

DISCLAIMER: All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and tests, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether verbal or in writing, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Metacrylics makes no claim that these tests or any other tests, accurately represent all environments.

Metacrylics® High Solids SILICONE

Single Component High Solids Silicone Cool Roof Top-Base Coat

Technical Data Sheet

SPECIFICATIONS

DESCRIPTION a single-component silicone elastomer specifically designed with high volume solids. It is a pure elastomeric silicone coating system that provides superior weatherproofing, and UV resistance over a variety of roof substrates.

GENERAL PROPERTIES High Solids, 100% Silicone content, rapid cure and superior physical properties.

RECOMMENDED USES Can be applied as a part of a maintenance or repair program or as part of a complete roof restoration system. Can be used to reinforce and seal field seams, roof penetrations, drains, scuppers, flashings, membrane splits and cracks as well as spot repairs for general roofing maintenance. The roof surfaces that can be applied over are limitless; BUR Modified Bitumen (Granulated or Smooth), Torch-down, Metal, TPO, EPDM, PVC, Foam, Tar & Gravel and Concrete.

PRODUCT LIMITATIONS Not recommended for continuous immersion service, for use in cryogenic tank, or cold storage roofing applications without a vapor barrier, or directly over modified Bitumen, asphalt or coal tar built-up roofing systems without an appropriate primer.

PONDING WATER The Metacrylics® High Solids Silicone Roof Membrane is not affected by ponding water, however, The National Roofing Contractors Association considers ponding water on any roof undesirable and recommends that all roof systems be designed and built to ensure positive drainage. (See the NRCA Roofing and Waterproofing Manual). Please consult Metacrylics® Technical Department for any specific questions regarding the application of this product.

STANDARD COLORS White, Light Grey, and Tan. Special colors are available upon request at additional charge and with minimum order quantity requirement limits. *Allow additional 15 days for non-standard colors.

PACKAGING	5 gal(18.93L) pail, 55 gal(208.2L) drum
COVERAGE RATE	1 gal/100ft ² (3.78L/9.29 m ²)
COLOR	White, Custom Colors
SHELF LIFE	6 months (unopened)
DRY TIME, (75°F, 50% RH)	> 3
DRY TIME W/ ACCELERATOR PKG.	< 2
WEATHERING QUV 10,000 HOURS	No degradation
ELONGATION, ASTM D-412	200% (± 15)
TENSILE STRENGTH (DIE C)	300 psi (±25)
PERMANENT SET AT BREAD	1.0%
PERMANENT CHANGE - HEAT AGED	0%
TENSION SET @ 100%, ASTM D-412	0%
WATER ABSORPTION, ASTM D-570	0.2
DUOMETER HARDNESS: SHORE A	45-55
PERMEABILITY (U.S. PERMS)	2.0
TEAR STRENGTH	45 lbs/in
SOLIDS BY VOLUME	98%
SOLIDS BY WEIGHT	98%
VISCOSITY	8,000 - 11,000 cps
SPECIFIC GRAVITY	1.20
FLASH POINT	280°F
VOC'S	48 g/L (.40 lbs/gal)
REFLECTIVITY	88%
EMISSIONIVITY	91%
SRI	110

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 hour 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 re-coat 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 CO₂, 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 recommend use 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 metacrylics.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.

