



ACRYLATHANE 5200

TECHNICAL DATA

ACRYLIC ALIPHATIC EXTERIOR COATING SYSTEM

THE PRODUCT AND ITS USES

AcrylaThane 5200 is a protective coating formulated to offer the best long-term protection against the elements and against physical damage in almost any outdoor commercial/industrial environment. The mix-and-apply format (1:4 by volume) means plural component performance combined with paint-like application characteristics. The polyurethane and acrylic resin used to formulate this product are the same as those used in better quality auto finishes, but with a higher resin content and less solvent.

AcrylaThane 5200 provides excellent gloss retention and color fastness. The cured film offers resilience, chemical resistance and a glossy appearance that can be restored by simple washing. It is resistant to aqueous solutions of all kinds including salt water and diluted acid and alkali, and will withstand intermittent exposure to solvents and more concentrated chemicals.

AcrylaThane 5200 is an excellent direct-to-metal (DTM) aliphatic polyurethane. It will provide excellent adhesion properties to a properly prepared metal surface without a primer. It can also be used as a topcoat over any of Madison's aromatic (lower cost, but not color fast) systems; choice of aromatic basecoats include instant setting products requiring plural component equipment and slower setting formulations requiring no special equipment.

Recommended for exterior applications. Typical uses for AcrylaThane 5200 include architectural finishing of concrete or steel, coating of graffiti-prone surfaces as well as machinery, equipment, metal siding and roofs.

PROPERTY	TEST DESCRIPTION	RESULTS
Application Temperatures	N/A	0°C (32°F) to 50°C (120°F)
Viscosity	Brookfield Viscometer	Paint-Like
Pot Life	@20°C/70°F	1 1/2—2 hours
Initial Setting Time	@20°C/70°F	120 minutes
Curing Time Before Handling	@20°C/70°F	12 hours
Recoat Time*	@20°C/70°F	Minimum: 30 minutes Maximum: 24 hours
Solids Content	ASTM D-1259	60 to 65%
Volatile Organic Compounds (VOCs)	ASTM D-2369	Less than 340 grams/litre
Theoretical Coverage	N/A	630 m ² /litre/micron (1040 ft ² /US gallon/mil)
Adhesion to Steel	ASTM D-4541 (SSPC 5)	Greater than 300 p.s.i
Impact Resistance	ASTM D-2794 (20 mils)	Greater than 80 in. lbs
Ultraviolet Resistance	ASTM G-154	Excellent
Colors		Wide color choice; consult sales representative
Finish		Gloss or Semi-Gloss

* However, recoat window varies depending on the spray equipment temperature setting, the ambient conditions, product temperature/thickness and the temperature of the substrate being coated.

NOTE: All statements, technical information and recommendations contained herein are typical of results obtained under laboratory conditions and are not intended to be used as contract specifications. For specification guidelines please contact Madison Chemical.

APPLICATION INSTRUCTIONS

CONTACT MADISON FOR DETAILED APPLICATION INSTRUCTION BULLETIN.

A. SURFACE PREPARATION

- 1) Ensure that surface is clean, dry and uncontaminated. Proceed only if the substrate temperature is more than 3°C (5°F) above the dew point temperature during surface preparation and coating application.
- 2) Abrasive blast clean with sand or grit (G40 or coarser). DO NOT USE steel shot or non-angular media. For **steel** surfaces in atmospheric service, blast to a Commercial Blast (SSPC-SP6; NACE 3; SA 2). Acid etching or chemical cleaning methods may be appropriate for certain substrates. For **top coating** over primer or base coat, apply within recoat window or roughen base coat using sandpaper.
- 3) See Madison Application Instructions for details.

B. APPLICATION OF COATING

- 1) Stir the individual components first. Mix pre-measured 'A' component into 'B' component (1:4 ratio by volume). Stir for 5 minutes to assure homogeneity. Pot life is temperature dependent (see page one).
- 2) Apply using a brush, roller or conventional single component airless spray equipment (for best results use airless spray). To thin use ONLY Madison's VR-2 Reducer. Other solvents will cause pimping, dullness or pinholes. If using a roller, use even backwards and forward strokes to achieve a continuous film. Cross roll to eliminate any ridges but do not overwork the surface as bubbling or blistering may occur. Choose a roller with the lowest pile possible to avoid incorporation of additional air into the materials. When spraying, use multiple light passes to avoid sags and provide a pinhole-free result. If thinning is required for spraying, or in order to extend the pot-life, use only Madison VR-2 Viscosity Reducer. Other solvents will cause pimping, dullness or pinholes. The most common method of application is airless spray. Ideal pressure is 2000 - 2500 psi range. A .013 - .017 " tip size is recommended.
- 3) On metal surfaces typical application thickness is 3 - 5 mils dry. **Note: Application thickness requirement and number of coats will vary with substrate, application technique, method and environmental conditions. Contact your Madison Representative.** On porous substrates, such as wood or concrete, a base coat (see above) may be required.
- 4) A second coat may be applied over the first, so long as it is applied within the recoat window (up to 24 hours). Otherwise, roughening of the surface will be necessary to ensure good intercoat adhesion.
- 5) Contact Madison for detailed application instructions.

C. CLEAN-UP AND STORAGE

- 1) This material will react with humidity and moisture. Keep containers tightly sealed and store upside down. For clean-up, use Madison VR-2 Viscosity Reducer, M.E.K. or a 50:50 blend of M.E.K. and Xylol. Other solvents may react with product.
- 2) Store between 10°C(50°F) and 27°C(80°F). DO NOT FREEZE. Use product within 6 months of receiving.

HEALTH AND SAFETY

AcrylaThane 5200 is intended for industrial use only. It contains no monomeric isocyanate but may nevertheless cause respiratory distress in some people. Provide ample ventilation. Wear a fresh air respirator when using in confined areas or when spraying. Wear rubber gloves, safety goggles and protective clothing. If swallowed, DO NOT induce vomiting as this will cause additional throat irritation; contact physician. If splashed on skin, remove immediately with rubbing alcohol and then wash with soap and water. If splashed in eyes, wash liberally with clean water and contact physician; temporary irritation of eyes may last several days. See MSDS for more information. The finished product is completely inert.

LIMITED TWO YEAR WARRANTY

Madison will replace any product which, in service for which it is suitable, fails to meet specifications within two years of sale and which is proven to be defective when applied according to instructions by a Madison Approved Applicator or Certified OEM Applicator. Madison accepts no responsibility or liability for any other loss, claim, damage, injury or expense, direct or consequential, in contract or negligence. This product replacement warranty is in lieu of any other right, warranty, guarantee or condition, statutory or otherwise, expressed or implied, whether as to fitness for a particular purpose or as to merchantable quality or otherwise. The information contained herein is believed to be accurate as of the date of publication. Madison reserves the right to change product specifications without notice

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