A·R·C·HITECTURAL®

ROOF COATINGS

MADE IN  THE USA

CRRC COOL ROOF RATING COUNCIL® MEMBER

OMNI-CLAD

PRODUCT DATA SHEET

DESCRIPTION

OMNI-CLAD an aliphatic polyurethane coating that is fluid applied and provides seamless waterproofing that can be used over acrylic coatings, epoxy coatings, urethane coatings and other previously coated roof and walking deck surface or can be used over plywood, concrete, steel and other construction materials. (Consult ARC Technical Department for further assistance.)

OMNI-CLAD single component water based sealant, therefore has no noxious fumes and cleans up with soap and water. This unique linear chemistry provides the user a high-performance, flexible, roof traffic wearing resistance and doesn't require a catalyst, therefore no hazardous free isocyanates. Amazingly the water based vehicle cross-links during the evaporation process curing within 24 to 48 hours. Inter-coat adhesion is great therefore multiple applications/coats may be applied depending on customers need.

OMNI-CLAD is formed in a reactor and undergoes Nano-processing. OMNI-CLAD is not reducible by solvents or any oil based products on the market. Due to the reactor process all hazardous aliphatic isocyanates are polymerized into a safe pre-polymer, eliminating all free isocyanates. A proprietary product.

OMNI-CLAD provides outstanding durability and toughness for walls, floors, tanks, equipment, food processing plants, boats, bridges, roofs and buildings. OMNI-CLAD is safe and easy to use. Anywhere a high-performance coating system or finished paint is required; OMNI-CLAD will meet the need.

OMNI-CLAD May be used with polyester reinforcement fabric and other approved ARC products.

OMNI-CLAD comes clear or white (Special color available but may be an extra cost)

APPLICATION

When using spray method ARC recommends 3,000 psi high pressure sprayer at 2.5 gallon p/m or better. ARC recommends when using a roll method of application a 3/8" to ½" nap accompanied with a 2 to 6 inch brush for details as needed. When embedding polyester reinforcement use rate is 2 gallon per 100 square feet. When just coating; use rate can vary 1 to 2 gallon per 100 square feet. OMNI-CLAD may be used as a base coat, inter-mediate coat and a finish coat. There is a recommended primer before using OMNI-CLAD; over concrete ARC recommends DynaSHIELD®HP Primer.

TECHNICAL DATA

Tensile Strength:	2000 PSI ASTM D-412
Elongation:	800% ASTM D-412
Flexibility:	Passes 1/2" bend @ 20oF ASTM D-412
Shore A Hardness:	80 ASTM D-2240
Permeability:	.016 Perms/in. ASTM D-496
VOC:	Less than 50 grams/liter
Adhesion:	15 lbs./in. TT-S-230
High Temperature Resistance:	180°F Heat Chamber
Weatherometer:	No Effect QUV - 2000 hrs.
Chemical Resistance:	Salt Spray - Good
Cure Time:	2 - 4 hours @ 72°F 50%
Fire Rating:	Class "A" in Assembly
Percent Solids:	36% ASTM 2697
Viscosity:	200 - 600 cps. Brookfield

OUTSTANDING FEATURES

Meets or exceeds all EPA, VOC health and safety standards
Single –Component Formula
Self-Crosslinking
Rapid Hardness Development
UV Resistant, Non-Yellowing
Abrasion Resistant
Chemical Resistant
Impact Resistant
Excellent Flexibility
High-Solids Formula
No Unpleasant Odor

CONSULT ARC TECHNICAL DEPARTMENT FOR ANSWERS TO ANY QUESTIONS REGARDING USE OF THIS PRODUCT

ARCHITECTURAL ROOF COATINGS, INC.®

Product Data Sheet

APPLICATION PROCEDURES

FOR ALL HYDROSHIELD™ and HYDRO-THERM™ ROOF COATINGS

TEMPERATURE

Air and Surface: 45°F Minimum/140°F Maximum
Material: 45°F Minimum/100°F Maximum

RELATIVE HUMIDITY

Can be applied at relative humidity up to 95%

DO NOT APPLY WHEN THE TEMPERATURE CAN FALL TO WITHIN 5°F OF THE DEW POINT WITHIN 6 HOURS.

This product cures by water evaporation. It is very important that this product is not used when weather conditions are below 45°F or when there is a chance that the temperature could fall below 20°F within a 24 - hour period after application. Do not apply this product if rain or dew is likely to occur before drying of product. Late afternoon application is not recommended if high humidity conditions exist, which could cause high moisture concentration on the surface overnight.

BRUSH: No reduction necessary. Use nylon/polyester brush. Do not over-brush as material may start to pull.

ROLLER: No reduction necessary. Use 1/2" to 1-1/2" nap synthetic rollers. Keep a wet edge to avoid ripping which may change appearance. If ripping is a problem, extend lap time to after materials have skinned. Avoid rapid rolling which causes bubbling.

AIRLESS SPRAY-VOLUME:

Output:	2.0 – 3 gal. per min.
Pressure:	3,000 – 4,000 psi
Spray Gun:	Graco – Contractor rated for pressure
Fan/Tip:	12/.021 -12/.039 reversible
Extension:	12" – 36" gun extension recommended

SPECIAL CONDITIONS

Mildew:

- Must be removed by power washing and broom scrubbing with a solution of bleach or liquid detergent and water. Rinse clean and allow dry.

Ponding Water:

- **ARC's Warranties do not cover damage to ARC coating caused from areas that pond water.**
- Water based coatings should not be applied on roofs that collect water and results in standing water over 48 hours after a rain. The National Roofing Contractors Association considers water ponds on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual).
- Do not use without a vapor barrier on cold storage or cryogenic tank roofing applications.

Surface Preparation: All surfaces to be coated must be clean, dry, and paintable. It may be necessary to power wash and/or prime to enhance adhesion. See application specification for more details.

Mixing Procedures: No thinning or reducing is necessary. Product may separate after shipping and storage, though it may still look mixed. When mixing becomes necessary, we recommend the use of a 3/4 horsepower or larger electric or air operated mixer with a blade capable of uniformly mixing the entire container. When product is in 5-gallon pails, use a 3" minimum diameter mixing blade. When product is in drums, use a 6" minimum diameter mixing blade.

Application Equipment: This product may be sprayed, brushed, or rolled. When using spray equipment, it is important that the following criteria are met: When using a spray pump, a 30:1 or 40:1 greater fluid to air ratio capable of delivering 2 gallons or more per minute continuous is needed, as well as an aluminum window screen. If a fluid spray hose is used, it should be high pressure with designed working pressure to handle maximum pressure delivered by the spray pump. Inside lining or tube should be of such a material so it is unaffected by the coating and any solvents used in clean up. Additionally, the following criteria should be used for hoses: 3/8" minimum I.D. up to 75 feet; 1/2" minimum I.D. up to 200 feet; and 3/4" minimum I.D. over 200 feet. The larger I.D. sections of hose should be used from the pump out in all circumstances with additional hose size reductions as necessary.

If a gun hose whip is used, high pressure with adequate W.P.S.I. 3/8" I.D. X 6 feet with an appropriate lining or tube is recommended. When using a spray gun, we recommend the Graco Hydra Max or equivalent. High-pressure gun swivels are available and can reduce operator fatigue. Spray tip should be a reversible self-cleaning type with an orifice size of .021 to .039 with a fan angle of 35 to 55 degrees. Always use components rated for pump pressures.

Cleanup Instructions: Clean up spills and spatters immediately with water. After cleaning, flush entire spray equipment with water followed by flushing propylene glycol through metal pump parts to prevent unit from rusting.

SAFETY PRECAUTIONS: Refer to the MSDS sheet before use. For Chemical emergencies, spills, leaks, exposure, or accidents CALL: INFOTRAC DAY/NIGHT 1-800-535-5053