

STATE OF HAWAII  
DEPARTMENT OF DEFENSE  
OFFICE OF THE ADJUTANT GENERAL  
3949 DIAMOND HEAD ROAD  
HONOLULU, HAWAII 96816-4495

May 27, 2015

**ADDENDUM NO. 1**

Furnish & Install Solar Renewable Energy System,  
Building 300, Ft. Ruger, Oahu, State of Hawaii, Department of Defense,  
Hawaii Army National Guard,  
Job No. CA-1105-C

The items listed hereinafter are hereby made a part of the contract for the above mentioned project and shall govern the work taking precedence over previously issued contract documents governing the items mentioned. Receipt of this addendum is to be acknowledged on page OF-8 of the proposer's packet.

The following are questions from the Pre-Bid Conference/Site Visit that was held on May 21, 2015.

1. Will the System be "on roof"?
  - a. Yes, the system is to be installed on roof.
2. What material type (make and manufacturer) is existing on the roof of building 300 and who is the contractor that installed it?
  - a. Refer to the attached submittals from a 2012 roof coating repair project.
3. Is the roof still under warranty?
  - a. Refer to the attached submittals from a 2012 roof coating repair project.
4. Is it permissible to saw cut/patch the parking lot area and run conduit below grade instead of under the eave as specified on the plans?
  - a. Yes. Contractor will be responsible for obtaining the required approvals, ensuring that existing underground utilities are not damaged and returning the parking lot area to conditions acceptable by the DOD.
5. Does the entire length of all 4"x12" beams need to be reinforced with the 1000S162-54 joists?
  - a. Yes
6. If the entire length needs to be braced what are we to do in the case of conflicts with existing obstructions? We were not able to go into every room to count the amount of conflicts but during the site visit we noticed numerous obstructions on the 4"x12" beams (existing electrical conduits and fixtures) in the few rooms we were able to go into.
  - a. For existing surface mounted electrical equipment on the wood rafters, remove mounting brackets and reattach with new brackets and screws as required. Refer to Detail B on Sheet S-1.1 for additional information.
7. Will the following modules be acceptable as a substitution for the specified Suntech modules? "Solar World #SW255"
  - a. Panels must meet Buy America requirements. Specifications must be equal or greater to items specified.

8. Will the following Request for Substitutions be approved?

Section/Item	Specific Brand	Substitute or Alternate Brand	Variant Features
16052-9 PV modules	Suntech STP250S	Renesola JC260M-25/Bbh	+ 10 watts
16052-9 PV Modules	Suntech STP250S	Renesola JC305M-24/Ab	+ 55 watts

- a. Panels must meet Buy America requirements. Specifications must be equal or greater to items specified.
9. Drawing E-2, E-3 – Please provide the electrical conduit and conductor wire sizes from combiner box to the inverter.
- a. Conduit and conductor wire sizes shall be determined by PV designer, based on inverter and PV module selected, as approved by HIARNG.
10. Drawing E-3 shows that the DC homerun wires are running from roof top to inverter location which is very far away. There is no voltage drop calculations provided. It would be advisable to change the inverter location close to the roof top array (below the roof on the side of the building) and thus convert the lengthy wire run to tie in point as a AC circuit which would minimize line loss.
- a. see Q&A # 12.
11. Section 07545 – Fluid Applied Elastomeric Roof Coating – During bid walk we could not go on top of the roof to ascertain the roof condition. Could you provide photographs and information on the roof warranty.
- a. see Q&A # 3.
12. Section 16052 2.02 I 1. PV Powered 50 kW Inverter specified is no longer available as the company was bought by Advanced Energy who do not provide a central 50 kW Inverter. Advanced Energy provides only string inverters below 100 kW. Request approval to provide any UL rated equivalent Inverter with total 50 kW AC output and complying with Buy America Act.
- a. Inverters meeting Buy America requirements with specifications equal or greater to items specified are acceptable. In addition, alternate placement and configurations of the inverters are acceptable pending approval from HIARNG.
13. Section 16052 2.02 I 1. Inverters currently being conditionally approved by HECO has to be listed in HECO list of eligible inverters complying with TrOV and Ride Through specifications – see HECO website for latest listing.
- a. see Q&A # 12.
14. Section 16052 2.02 I 2. Photovoltaic Modules specified Suntech STP250S-20/Wd+ is no longer available. Request approval to provide any UL rated equivalent Photovoltaic module so long as it complies with Buy America Act and providing a total system size of 52.50 kW DC STC (210 modules x 250W).
- a. see Q&A # 7.
15. Section 16052 2.02 I 4. S-5 Mini and S-5-PV Kits specified for PV Racking System is not compatible with given roof and also Drawing S-2.1 shows a different racking system using Pro-Solar Rails and other standoffs. Request approval to provide suitable racking system using standoffs, rails, mid-end clamp and reviewed and certified for local code by structural PE.
- a. Acceptable to provide suitable racking systems provided the configuration (e.g. low profile, no tilt/raised angle, etc.) of the PV panels is maintained.

Arthur J. Logan  
Brigadier General  
Adjutant General

Posted: May 27, 2015

PRE-BID CONFERENCE ATTENDANCE LIST

DATE: May 21, 2015 at 9:00am  
 PROJECT: Furnish & Install Solar Renewable Energy System, Bldg 300, Ft. Ruger, Oahu  
Department of Defense, Hawaii Army National Guard, Job No. CA-131T 1103-C

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NAME:  
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**1.0 DESCRIPTION & RECOMMENDED USE**

ElastaHyde is a 100% acrylic, premium quality, high durability, elastomeric coating. It has been developed to protect various roof surfaces and contribute to substantial energy savings.

ElastaHyde (white) reflects over 84% of Sun's rays and serves as a thermal reflector due to hiding & reflective pigments. As an ENERGY STAR® Partner, Western Colloid has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. ElastaHyde 720 ARC is listed by the "Cool Roof Rating Council" and meets California Title 24 requirements.

When cured ElastaHyde forms an extremely tough, flexible film that can withstand the most rigorous weather conditions. ElastaHyde is designed as a surface coating for Western Colloid "Fluid Applied Reinforced Roofing" membranes and metal roof systems. ElastaHyde is also recommended for use on conventional and modified built-up roofs and existing Spray Polyurethane Foam roofs.

**2.0 TECHNICAL DATA**

Meets ASTM D6083-97a for 100% Acrylic Roof Coating.

Base .....	100% Acrylic
Color .....	White, Gray, Tan (Custom Colors) (energy savings / reflectivity based on White)
Solar Reflectivity .....	(Initial) 84% ASTM C1649
Thermal Emittance .....	(Initial) 89% ASTM C1371
SRI (Solar Reflectance Index) .....	108 ASTM E1980-01
SRI (Solar Reflectance Index) Aged .....	93 ASTM E1980-01
Flammability .....	Wet: Non-flammable Dry: Class A U.L. 790 ASTM E108
Elongation .....	(Initial) >250% ASTM D2370 (after weathering) >175% ASTM D2370
Tensile Strength .....	>250 psi ASTM D2370
1000 hr Xenon Arc UV Exposure .....	Pass ASTM D4798
Permeance .....	<15 ASTM D1653
Wet Adhesion (pli) (Emulsion) .....	>10 ASTM D903
Dry Adhesion (pli) (Emulsion) .....	>17 ASTM D903
Tear Resistance .....	>100 lb/in ASTM D624
Low Temperature Flexibility .....	Pass 15°F 1/2" ASTM D522
Solids .....	53% by volume ASTM D2697
Solids .....	66% by weight ASTM D1644
Water Swelling .....	<20% ASTM D471
Fungal Resistance .....	no growth ASTM G21
Dirt Pick-Up Resistance .....	Very Good
Weight Per Gallon .....	Approximately 11.5 - 12 lbs.
Consistency .....	Heavy paint, for heavy duty spray, brush or roller
Viscosity .....	100-110 (KU) ASTM D562
Application Temperature .....	Min. 50°F Max. 100°F (ambient)
Drying Time .....	(70°F @ 50% r.h.) @100 sq.ft./gal. = 1 hour

**3.0 DIRECTIONS FOR USE**

Surface must be dry and free of dirt, dust, oil, grease, wax, rust, chalky or loose paint, mildew and any other surface contamination that may inhibit adhesion. Repair cracks, breaks, open seams, and other roof imperfections with a heavy sealer such as WCP-800 Elastic Cement or recommended caulking or flashing compounds. When coating over newly-applied asphalt emulsions such as WCP-298 or 298E, proceed when the emulsion is thoroughly dry. The curing time of asphalt emulsion is 2 to 3 days in warm, dry weather. Best results are achieved when surface is washed to remove any residue that may cause lack of adhesion or "tobacco staining".

**4.0 APPLICATION**

1. ElastaHyde may be applied by roller, brush or spray. Best results are achieved when applied by high pressure airless spray. Apply per specifications. On existing mineral surface or previously coated surfaces; clean surface thoroughly before applying ElastaHyde, scrubbing with a detergent solution if necessary to remove oils and other residues. Flush immediately with strong stream of water. Some surfaces may require priming (consult WESTERN COLLOID).

2. Stir thoroughly to ensure uniform application by brush, roller or spray. For best results apply in a two coat cross hatch manner (first application is at right angle to second). Apply uniformly over entire roof surface with heavier coat around vents and seams. Apply only when coating will not be subject to heavy dew, rain, moisture or freezing within 48 hours of application.

3. COVERAGE: 75 to 100 Square feet per gallon per coat. Total 2 1/2 to 6 gallons per 100 sq. ft. depending on specification and type of surface. Additional coats required for heavier coverage.

4. Equipment Clean Up: Soap and warm water.

**PRECAUTIONS:** Do not apply ElastaHyde when surface or air temperature is below 50° F, or if cold weather, rain or fog is expected within forty-eight hours of application. ElastaHyde is an excellent, water repellent product. Nevertheless, it is not recommended on surfaces that pond water for more than 72 hours without reinforcement or other precautions (consult Western Colloid for ponding recommendations). ElastaHyde cures through dehydration. Drying time may vary depending upon wet film thickness, temperature, humidity and air movement. For optimum energy savings, ElastaHyde should be cleaned yearly.

ElastaHyde is water based and not DOT regulated or labeled for highway transport.

READ AND FOLLOW DIRECTIONS CAREFULLY. REFER TO MSDS FOR PROPER HANDLING.

STORE CONTAINERS IN COOL, DRY, PROTECTED AREA. KEEP FROM FREEZING. KEEP LIDS TIGHTLY CLOSED WHEN NOT IN USE.

NOT RECOMMENDED OVER WOOD SHINGLES OR UNTREATED WOOD SURFACES.

**LIMITED WARRANTY**

WESTERN COLLOID warrants its products to be of merchantable quality and suitable for the general purpose for which they were intended, when applied in accordance with WESTERN COLLOID's instructions. WESTERN COLLOID does not warrant its products to be suitable for any purpose or use other than for which they were intended. Liability under this warranty is limited to supplying new material without charge, or at WESTERN COLLOID's option, to a refund of the purchase price. In the event of a claim under this warranty, notice must be given in writing at the addresses shown hereon. THIS LIMITED WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESSED WARRANTIES, AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

ENERGY STAR and the ENERGY STAR certification mark are registered U.S. marks.

720 ARC 1105a

The Cool Roof Rating Council (CRRC) labels for our product as required by California Title 24:

Product Name: **ElastaHyde 720 ARC - "White"** (White Elastomeric Reflective Roof Coating)  
 CRRC Product ID: **0682-003**

		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance	0.84	0.75
	Thermal Emittance	0.89	0.91
	Rated Product ID	0682-003	
	Licensed Manufacturer ID	0682	
	Classification	Production Line	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.                  Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			

SRI (Solar Reflectance Index) as required by LEED and other programs: = 106  
 SRI 3 year Aged = 93

Product Name: **ElastaHyde 720 ARC - "California Tan"** (Light Tan Elastomeric Reflective Roof Coating)  
 CRRC Product ID: **0682-005**

		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance	0.80	0.75
	Thermal Emittance	0.90	0.86
	Rated Product ID	0682-005	
	Licensed Manufacturer ID	0682	
	Classification	Production Line	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.                  Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			

SRI (Solar Reflectance Index) as required by LEED and other programs: = 100  
 SRI 3 year Aged = 92

Product Name: **ElastaHyde 720 ARC - "Platinum Gray"** (Light Gray Elastomeric Reflective Roof Coating)  
 CRRC Product ID: **0682-004**

		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance	0.76	0.72
	Thermal Emittance	0.90	0.86
	Rated Product ID	0682-004	
	Licensed Manufacturer ID	0682	
	Classification	Production Line	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.                  Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			

SRI (Solar Reflectance Index) as required by LEED and other programs: = 94  
 SRI 3 year Aged = 88

720 ARC 1105a



# WESTERN COLLOID

## Material Safety Data Sheet

### ELASTAHYDE

Acrylic Reflective Roof Coating (Water Based)  
Product #s 720 ARG, 790 AFC, 770 AXP

Date: 07/15/2009

Chemical Formula: Mixture

#### SECTION I - MANUFACTURER INFORMATION

Manufacturer's Name:	Western Colloid S.C., Inc.	Western Colloid N.C., Inc.
Address:	654 E. 60 <sup>th</sup> St., Los Angeles, CA 90001	700 71 <sup>st</sup> Ave., Oakland, CA 94621
Emergency Phone No.:	323-231-8292	510-430-0270
Information Phone No.:	323-231-8292	510-430-0270

#### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>%</u>	<u>TLV</u>
Ethylene Glycol	107-21-1	< 2.0	125 mg/m <sup>3</sup>
Crystalline Silica (as dust)	14808-80-77	< 12.0	.01 mg/m <sup>3</sup>
Titanium Dioxide	13483-87-7	< 6.0	10 mg/m <sup>3</sup>
Calcium Carbonate	1317-65-3	< 25.0	10 mg/m <sup>3</sup>
Balance non-hazardous (water and acrylic polymers) *		<60.0	
water	7732-18-5		n/a
acrylic polymer	25852373		n/a

#### SECTION III - PHYSICAL DATA

Appearance: Opaque heavy bodied liquid.      Odor: Mild Odor  
V.O.C Actual = <8 gm/ltr      Regulatory = <15 gm/ltr

Boiling Point: 212°F      Evaporation Rate (Butyl Acetate=1): <1  
Vapor Pressure (mmHG): 17.5      Specific Gravity (Water=1): 1.03  
Water Solubility: Dilutable      Melting Point: N/A  
Vapor Density (Air=1): <1      % Volatile by Weight: 32 (water)

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Auto Ignition Temperature: N/A  
Flash Point: N/A  
Extinguishing Media: None needed. (water base)  
Unusual Fire or Explosion Hazards: Dried product can burn. Use water, foam, CO<sub>2</sub> or dry chemical extinguishers.  
Special Fire-Fighting Procedures: Use breathing apparatus in enclosed areas.

#### SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability (Thermal, Light): Stable  
Incompatibility (Material to Avoid): Minerals that react with water.  
Hazardous Polymerization: Will not occur  
Hazardous Decomposition Products: Burning may produce carbon monoxide and carbon dioxide.

#### SECTION VI - HEALTH HAZARDS

Acute: Acute: No evidence of adverse effects from available information.  
Chronic: Prolonged contact may cause transient reddening of skin and eye irritation.  
Medical conditions aggravated by exposure: None Known

**SECTION VII - EMERGENCY & FIRST AID**

Inhalation: Residual monomer vapors may be irritating to eyes, mucous membranes and respiratory tract. May produce symptoms of headache and nausea in poorly ventilated areas. Remove to fresh air.  
Skin: If redness or rash occurs...wash with soap and warm water.  
Eyes: Rinse with clean water  
Ingestion: Should not occur. If swallowed do not induce vomiting, consult physician.

**SECTION VIII - INDUSTRIAL HYGIENE CONTROL MEASURES**

Ventilation: If spraying in enclosed or confined area, maintain proper ventilation to keep air contaminant below permissible exposure limit.  
Respiratory Protection: If mist is present or if sprayed in enclosed areas, use MSHA/NIOSH approved mask for mist.  
Protective Gloves: Impervious to water.  
Eye Protection: Safety glasses or goggles. Available eye wash.  
Other Protective Equipment: Protective clothing to avoid skin contact.

**SECTION IX - ENVIRONMENTAL PROTECTION INFORMATION**

Steps in Case of Spill: Enclose with diking material. Scoop up wet material for reclamation and reuse. Let residue dry or wash down.

Waste Disposal Method: Standard waste disposal for dry material subject to local and Federal regulations. Conservation and Recovery Act (RCRA) (40CFR 261).

Handling and Storage Precautions: Store containers in cool dry area away from direct sunlight. Protect from freezing. Keep lids tightly closed when not in use.

DOT Shipping Requirements: Not DOT regulated.

**SECTION X - OTHER INFORMATION**

	Health	Flammability	Reactivity
HMIS* Rating:	1	0	0
NFPA** Rating			

Notice: These ratings involve data and interpretations that may vary from company to company and are intended only for rapid, general identification of the magnitude of the specific hazard. TO DEAL ADEQUATELY WITH THE SAFE HANDLING OF THIS MATERIAL ALL OF THE INFORMATION CONTAINED IN THIS MSDS MUST BE CONSIDERED. The customer is responsible for determining the proper personal protective equipment needed for its particular use of this material.

- \* Hazardous Materials Identification Systems [HMIS] Revised RAW MATERIALS RATING MANUAL, National Paint & Coatings Association, Fall 1984.
- \*\* NFPA 704 Standard System for the Identification of the Fire Hazards of Materials, National Fire Protection Association, 1985

The information contained herein is furnished without warranty of any kind. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Information on this form is furnished solely for the purpose of compliance with OSHA Hazard Communication Standard, 29 CFR 1910.1200, the Workplace Hazardous Material Information System (WHMIS), and shall not be used for any other purpose.



## TECHNICAL BULLETIN

### PRODUCT #800 ELASTIC CEMENT

FLUID APPLIED REINFORCED ROOFING • REFLECTIVE COATING SYSTEMS

#### DESCRIPTION

Product #800 Elastic Cement is a water based, elastomeric flashing, patching and sealing compound. It is formulated with premium acrylic rubber resins, inert mineral pigments and non-asbestos fibers to form a permanently elastomeric waterproofing and sealing compound. When cured, Product #800 Elastic Cement forms a tough, flexible, elastic membrane that can withstand greater stress than ordinary plastic roof cement, flashing compound or even modified plastic cement. Product #800 Elastic Cement is a heavy bodied compound that can be brushed or troweled. Product #800 Elastic Cement is available in white or black. Black speeds the drying time in cold weather.

When making repairs to splits, seams or flashings that may be subject to a great deal of flexing or movement Product #800 Elastic Cement should be reinforced with polyester fabric. For best results and longest life Product #800 Elastic Cement should be coated with Elastahyde White Elastomeric Reflective Coating.

Product #800 Elastic Cement is non-flammable, low odor and contains no asbestos fibers. Product #800 Elastic Cement is not DOT regulated.

Product #800 Elastic Cement is water based and can be applied to most clean (dust and oil free) surfaces. Product #800 Elastic Cement has excellent adhesion to most substrates including asphalt emulsion, wood, metal and masonry without the use of special primers. New, glazed asphalt roofs should be surface primed with Product #288 or #298E. It can be applied to dry or damp surfaces using brushes or trowels. Product #800 Elastic Cement can be coated in 1 to 2 hours. If you need assistance with the application of this product call Western Colloid.

#### USES

- ◆ A surface flashing compound for new cold process, Glas-Shield, or mineral surfaced composition built-up roofing.
- ◆ A repair compound for cold process or built-up roof systems.
- ◆ Repair cracks in masonry, stucco or parapet walls.
- ◆ Repair and seal mobile home, trailer and recreational vehicle roofs.
- ◆ Seal seams, flashings and screws on metal roofs.
- ◆ Repair expansion joints in concrete walls.
- ◆ Repair and seal air conditioning ducts, sheet metal gutters, metal coping and wall caps.

#### PHYSICAL PROPERTIES

Color .....	White or Black
Total Solids .....	85-70% by weight
Consistency .....	Heavy; Brush or Trowel
Weatherability .....	Superior, 10 to 20 years
Flexibility .....	Remains flexible below freezing
Elongation .....	Greater than 500%
Application Temperature .....	Minimum 50° F
Cure Time (through dehydration) .....	1 to 2 days
Tack free time .....	1 hour

#### PREPARATION

Surface must be dry or damp (not wet) and free of dirt, dust, oil, grease, wax, rust, chalky or loose paint, mildew and any other surface contamination that may inhibit adhesion.

Metal surfaces must be clean and free of dirt, dust, oil, grease, wax, rust, chalky or loose paint. Mobile home roofs should have any existing sealants or coatings that are not adhered and secure removed. New galvanized metal should be etched or primed with proper primer (consult Western Colloid for proper primer). If rust is present, remove rust and scale then prime with Western Colloid Rust Primer (consult Western Colloid for proper primer for your application).

#### APPLICATION

**Three Course Method;** Using brush or trowel, apply to dry or damp (not wet) surface at the rate of 5 gallons per 100 sq. ft. (20 sq. ft. per gallon). While first coat is still wet embed polyester fabric and brush to remove air pockets and wrinkles. Immediately follow with second coat at a rate of 5 gallons per 100 sq. ft. (10 gallons per 100 sq. ft. total). This will yield a finished membrane thickness of approximately 1/8 inch.

For cracks and splits in masonry or wood, trowel as necessary. Elastic Cement shrinks through drying so additional applications may be necessary.

Wet material and all tools and equipment may be cleaned with water. Rinse tools and equipment with water before using.

**PRECAUTIONS:** Do not apply Product #800 Elastic Cement when surface or air temperature is below 50° F, or if cold weather, rain or fog is expected within forty-eight hours of application. Product #800 Elastic Cement cures through dehydration. Drying time may vary depending upon wet film thickness, temperature, humidity and air movement. Do not apply Product #800 Elastic Cement in a thickness of 3/16 inch or greater. A surface skin may form which will not allow the entire film to properly cure. If a thickness greater than 3/16 inch is required Elastic Cement should be applied in multiple coats.

READ AND FOLLOW DIRECTIONS CAREFULLY. REFER TO MSDS FOR PROPER HANDLING.

**STORE CONTAINERS IN COOL, DRY, PROTECTED AREA. KEEP FROM FREEZING**

#### LIMITED WARRANTY

Western Colloid warrants its products to be of merchantable quality and suitable for the general purpose for which they were intended, when applied in accordance with Western Colloid's instructions. Western Colloid does not warrant its products to be suitable for any purpose or use other than for which they were intended. Liability under this warranty is limited to supplying new material without charge, or at Western Colloid's option, to a refund of the purchase price. In the event of a claim under this warranty, notice must be given in writing at the addresses shown hereon. THIS LIMITED WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESSED WARRANTIES, AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

TEC800 0411C



# WESTERN COLLOID

## Material Safety Data Sheet

### # 800 ELASTIC CEMENT

(Water Based, Flashing, Caulking & Sealing Compound)

Date: 07/15/2009

Chemical Formula: Mixture

#### SECTION 1 - MANUFACTURER INFORMATION

Manufacturer's Name:

Western Colloid S.C., Inc.

Western Colloid N.C., Inc.

Address:

654 E. 60<sup>th</sup> St., Los Angeles, CA 90001

700 71<sup>st</sup> Ave., Oakland, CA 94621

Emergency Phone No.:

323-231-8292

510-430-0270

Information Phone No.:

323-231-8292

510-430-0270

#### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>%</u>	<u>TLV</u>
Ammonia	7664-41-7	< 0.25	25ppm
Crystalline Silica (as dust)	14808-60-77	< 2.	.01 mg/m3
Proprietary Polymers and other non-hazardous ingredients: Acrylic Polymer	25852373	< 75.	nda
Water	7732-18-5	> 25.	nda

#### SECTION III - PHYSICAL DATA

Appearance: White or gray heavy liquid (paste)      Odor: Mild ammonia odor

V.O.C Actual = 0 gm/ltr      Regulatory = 0 gm/ltr

Boiling Point: 212°F

Vapor Pressure (mmHG): 17.

Water Solubility: Dilutable

Vapor Density (Air=1): <1

Evaporation Rate (Butyl Acetate=1): <1

Specific Gravity (Water=1): 1 to 1.3

Melting Point: N/A

% Volatile by Weight: 30-35 (water)

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Auto Ignition Temperature: N/A

Flash Point: N/A

Extinguishing Media: Not Required (Water base liquid / will not burn)

Unusual Fire or Explosion Hazards: Dried product can burn. Use water, foam, CO<sub>2</sub> or dry chemical extinguishers.

Special Fire-Fighting Procedures: Use breathing apparatus in enclosed areas.

#### SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability (Thermal, Light): Stable

Incompatibility (Material to Avoid): None known

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: None known

#### SECTION VI - HEALTH HAZARDS

Acute: No evidence of adverse effects from available information.

Chronic: No evidence of adverse effects from available information.

Medical conditions aggravated by exposure: None known

**SECTION VII - EMERGENCY & FIRST AID**

Inhalation: Should not occur. Remove to fresh air.  
Skin: If redness or rash occurs...wash with soap and warm water.  
Eyes: Rinse with clean water  
Ingestion: Should not occur.

**SECTION VIII - INDUSTRIAL HYGIENE CONTROL MEASURES**

Ventilation: N/A  
Respiratory Protection: N/A  
Protective Gloves: Impervious to water.  
Eye Protection: Safety glasses or goggles  
Other Protective Equipment: N/A

**SECTION IX - ENVIRONMENTAL PROTECTION INFORMATION**

Steps in Case of Spill: Enclose with diking material. Scoop up wet material for reclamation and reuse. Let residue dry.

Waste Disposal Method: Standard waste disposal for dry material subject to local and Federal regulations. Conservation and Recovery Act (RCRA) (40CFR 261).

Handling and Storage Precautions: Store containers in cool dry area away from direct sunlight. Protect from freezing. Keep lids tightly closed when not in use.

DOT Shipping Requirements: Not DOT regulated.

**SECTION X - OTHER INFORMATION**

	Health	Flammability	Reactivity
HMIS* Rating:	1	0	0
NFPA** Rating			

Notice: These ratings involve data and interpretations that may vary from company to company and are intended only for rapid, general identification of the magnitude of the specific hazard. TO DEAL ADEQUATELY WITH THE SAFE HANDLING OF THIS MATERIAL ALL OF THE INFORMATION CONTAINED IN THIS MSDS MUST BE CONSIDERED. The customer is responsible for determining the proper personal protective equipment needed for its particular use of this material.

- \* Hazardous Materials Identification Systems (HMIS) Revised RAW MATERIALS RATING MANUAL, National Paint & Coatings Association, Fall 1984.
- \*\* NFPA 704 Standard System for the Identification of the Fire Hazards of Materials, National Fire Protection Association, 1985

The information contained herein is furnished without warranty of any kind. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Information on this form is furnished solely for the purpose of compliance with OSHA Hazard Communication Standard, 29 CFR 1910.1200, the Workplace Hazardous Material Information System (WHMIS), and shall not be used for any other purpose.



# TECHNICAL BULLETIN

## "ELASTAHYDE" #770 AXP

### White Elastomeric Acrylic Coating

#### FLUID APPLIED REINFORCED ROOFING • REFLECTIVE COATING SYSTEMS

#### 1.0 DESCRIPTION & RECOMMENDED USE

ElastaHyde 770 AXP is a 100% acrylic, premium quality, high durability, elastomeric coating which has been developed to protect smooth APP Modified Bitumen and various roof surfaces. This product was designed to adhere to smooth APP Modified Bitumen and other asphalt products. Because of its design and adhesive characteristics it performs extremely well under ponding conditions. It can be used with polyester reinforcements to create an extremely tough and durable roof membrane. Reinforced coating system is FM Approved.

ElastaHyde 770 AXP reflects over 83% of Sun's rays and serves as a thermal reflector due to hiding & reflective pigments. ElastaHyde 770 AXP can contribute to substantial energy savings. ElastaHyde 770 AXP is listed as a "Cool Roof" by the "Cool Roof Rating Council" as required by California Title 24 guidelines. (Reflectivity based on White)

When cured ElastaHyde 770 AXP forms an extremely tough, flexible film that can withstand the most rigorous weather conditions. When reinforced it forms a complete waterproof membrane. This coating is designed as a surface coating for smooth mod. bit., asphalt emulsion and our "Fluid Applied Reinforced Roofing" membranes. ElastaHyde 770 AXP is also recommended for use on conventional built-up, single ply, foam and metal roof systems. ElastaHyde 770 AXP is water based and not DOT regulated or labeled for highway transport.

#### 2.0 TECHNICAL DATA

Base .....	100% Acrylic
Color .....	White
Solar Reflectivity .....	(Initial) 83% ASTM E97
Thermal Emittance .....	(Initial) 89% ASTM E97
SRI (Solar Reflectance Index) .....	104 ASTM E1980-01
Flammability .....	Wet: Non-flammable
..... Dry (Non-Reinforced): Class A	U.L. 790
..... Dry (Reinforced): Class A	U.L. 790
..... Dry: Class A	ASTM E108
Elongation .....	(Non Reinforced) >650% ASTM D2370
Elongation .....	(Reinforced) >80% ASTM D412
Tensile Strength .....	(Non Reinforced) >100 psi ASTM D2370
Tensile Strength .....	(Reinforced) >2213 psi ASTM D412
1000 hr Xenon Arc UV Exposure .....	Pass ASTM D4798
Permeance .....	<4 ASTM D1653
Low Temperature Flexibility .....	Pass 30°F 1/4" ASTM D522
After 1000 hr Weatherometer .....	Pass 30°F 1" ASTM D522
Solids .....	50% by volume ASTM D2697
Solids .....	64% by weight ASTM D1644
Bilateral Resistance after 14 days (Mod.Bit.) .....	Excellent
Fungal Resistance .....	no growth ASTM G21
Salt Spray Test .....	no effect (coating or substrate) ASTM B-117
Weight Per Gallon .....	Approximately 11.5 lbs.
Consistency .....	Heavy paint, for heavy duty spray, brush or roller
Viscosity .....	100-110 (KU) ASTM D562
Application Temperature .....	Min. 50°F Max. 100°F (ambient)
Drying Time .....	(70°F @ 50% r.h.) @100 sq.ft./gal. = 1 hour

#### 3.0 DIRECTIONS FOR USE

Surface must be dry and free of dirt, dust, oil, grease, wax, rust, chalky or loose paint, mildew and any other surface contamination that may inhibit adhesion. Repair cracks, breaks, open seams, and other roof imperfections with a heavy sealer such as WCP-800 Elastic Cement or recommended caulking or flashing compounds. When coating over newly-applied asphalt emulsions such as WCP-298 or 298E, proceed when the emulsion is thoroughly dry.

The curing time of asphalt emulsion is 2 to 3 days in warm, dry weather. All asphalt or mod. bit. surfaces must be washed to remove any residue that may cause lack of adhesion or "tobacco staining".

#### 4.0 APPLICATION

1. ElastaHyde 770 AXP may be applied by roller, brush or spray. Apply per specifications. On existing previously coated surfaces; clean surface thoroughly before applying ElastaHyde 770 AXP, scrubbing with a detergent solution if necessary to remove oils and other residues. Flush immediately with strong stream of water. Some surfaces may require priming (consult Western Colloid).

2. Stir thoroughly to ensure uniform application by brush, roller or spray. For best results apply in a two coat cross hatch manner (first application is at right angle to second). Apply uniformly over entire roof surface with heavier coat around vents and seams. Apply only when coating will not be subject to heavy dew, rain, moisture or freezing within 48 hours of application.

3. COVERAGE: 33 to 100 Square feet per gallon per coat. Total 2 to 8 gallons per 100 sq. ft. depending on specification and type of surface. To allow for proper drying and curing do not apply in application rates greater than (3 gal. embedment) (1 1/2 gallons surface) per square per coat. Multiple coats required for heavier coverage.

4. Equipment Clean Up: Soap and warm water.

**PRECAUTIONS:** Do not apply ElastaHyde 770 AXP when surface or air temperature is below 50° F, or if cold weather, rain or fog is expected within forty-eight hours of application. ElastaHyde 770 AXP cures through dehydration. Drying time may vary depending upon wet film thickness, temperature, humidity and air movement. ElastaHyde 770 AXP should not be exposed to ponding conditions until coating has completely cured. For optimum energy savings, ElastaHyde should be cleaned yearly. \*To meet California Title 24 requirements ElastaHyde 770 AXP should be surfaced coated with 10 mils of ElastaHyde 720 ARC or 700 AFC.

READ AND FOLLOW DIRECTIONS CAREFULLY. REFER TO MSDS FOR PROPER HANDLING.

STORE CONTAINERS IN COOL, DRY, PROTECTED AREA. KEEP FROM FREEZING. KEEP LIDS TIGHTLY CLOSED WHEN NOT IN USE.

NOT RECOMMENDED OVER WOOD SHINGLES OR UNTREATED WOOD SURFACES.

#### LIMITED WARRANTY

WESTERN COLLOID warrants its products to be of merchantable quality and suitable for the general purpose for which they were intended, when applied in accordance with WESTERN COLLOID's instructions. WESTERN COLLOID does not warrant its products to be suitable for any purpose or use other than for which they were intended. Liability under this warranty is limited to supplying new material without charge, or at WESTERN COLLOID's option, to a refund of the purchase price. In the event of a claim under this warranty, notice must be given in writing at the addresses shown hereon. THIS LIMITED WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESSED WARRANTIES, AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

770 AXP 0411b

**"ELASTAHYDE" #770 AXP  
Elastomeric Acrylic Coating**

The Cool Roof Rating Council (CRRC) label for our product as required by California Title 24:

Product Name: **ElastaHyde 770 AXP - "White"** (White Elastomeric Reflective Roof Coating)

CRRC Product ID: **0682-002**

		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance	0.83	0.70
	Thermal Emittance	0.90	0.91
	Rated Product ID	0682-002	
	Licensed Manufacturer ID	0682	
	Classification	Production Line	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			

SRI (Solar Reflectance Index) as required by LEED and other programs: = **104** (ASTM E1980-01)



# WESTERN COLLOID

## Material Safety Data Sheet

### ELASTAHYDE

Acrylic Reflective Roof Coating (Water Based)  
Product #s 720 ARC, 790 AFC, 770 AXP

Date: 07/15/2009

Chemical Formula: Mixture

#### SECTION 1 - MANUFACTURER INFORMATION

Manufacturer's Name:	Western Colloid S.C., Inc.	Western Colloid N.C., Inc.
Address:	654 E. 60 <sup>th</sup> St., Los Angeles, CA 90001	700 71 <sup>st</sup> Ave., Oakland, CA 94621
Emergency Phone No.:	323-231-8292	510-430-0270
Information Phone No.:	323-231-8292	510-430-0270

#### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>%</u>	<u>TLV</u>
Ethylene Glycol	107-21-1	< 2.0	125 mg/m <sup>3</sup>
Crystalline Silica (as dust)	14808-60-77	< 12.0	.01 mg/m <sup>3</sup>
Titanium Dioxide	13463-67-7	< 6.0	10 mg/m <sup>3</sup>
Calcium Carbonate	1317-65-3	< 25.0	10 mg/m <sup>3</sup>
Balance non-hazardous (water and acrylic polymers) * water	7732-18-5	< 60.0	n/a
acrylic polymer	25852373		n/a

#### SECTION III - PHYSICAL DATA

Appearance: Opaque heavy bodied liquid.      Odor: Mild Odor  
V.O.C Actual = <8 gm/ltr      Regulatory = <15 gm/ltr

Boiling Point: 212°F      Evaporation Rate (Butyl Acetate=1): <1  
Vapor Pressure (mmHG): 17.5      Specific Gravity (Water=1): 1.03  
Water Solubility: Dilutable      Melting Point: N/A  
Vapor Density (Air=1): <1      % Volatile by Weight: 32 (water)

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Auto Ignition Temperature: N/A  
Flash Point: N/A  
Extinguishing Media: None needed. (water base)  
Unusual Fire or Explosion Hazards: Dried product can burn. Use water, foam, CO<sub>2</sub> or dry chemical extinguishers.  
Special Fire-Fighting Procedures: Use breathing apparatus in enclosed areas.

#### SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability (Thermal, Light): Stable  
Incompatibility (Material to Avoid): Minerals that react with water.  
Hazardous Polymerization: Will not occur  
Hazardous Decomposition Products: Burning may produce carbon monoxide and carbon dioxide.

#### SECTION VI - HEALTH HAZARDS

Acute: Acute: No evidence of adverse effects from available information.  
Chronic: Prolonged contact may cause transient reddening of skin and eye irritation.  
Medical conditions aggravated by exposure: None Known

**SECTION VII - EMERGENCY & FIRST AID**

Inhalation: Residual monomer vapors may be irritating to eyes, mucous membranes and respiratory tract. May produce symptoms of headache and nausea in poorly ventilated areas. Remove to fresh air.

Skin: If redness or rash occurs...wash with soap and warm water.

Eyes: Rinse with clean water

Ingestion: Should not occur. If swallowed do not induce vomiting, consult physician.

**SECTION VIII - INDUSTRIAL HYGIENE CONTROL MEASURES**

Ventilation: If spraying in enclosed or confined area, maintain proper ventilation to keep air contaminant below permissible exposure limit.

Respiratory Protection: If mist is present or if sprayed in enclosed areas, use MSHA/NIOSH approved mask for mist.

Protective Gloves: Impervious to water.

Eye Protection: Safety glasses or goggles. Available eye wash.

Other Protective Equipment: Protective clothing to avoid skin contact.

**SECTION IX - ENVIRONMENTAL PROTECTION INFORMATION**

Steps in Case of Spill: Enclose with diking material. Scoop up wet material for reclamation and reuse. Let residue dry or wash down.

Waste Disposal Method: Standard waste disposal for dry material subject to local and Federal regulations. Conservation and Recovery Act (RCRA) (40CFR 261).

Handling and Storage Precautions: Store containers in cool dry area away from direct sunlight. Protect from freezing. Keep lids tightly closed when not in use.

DOT Shipping Requirements: Not DOT regulated.

**SECTION X - OTHER INFORMATION**

	Health	Flammability	Reactivity
HMIS* Rating:	1	0	0
NFPA** Rating			

Notice: These ratings involve data and interpretations that may vary from company to company and are intended only for rapid, general identification of the magnitude of the specific hazard. TO DEAL ADEQUATELY WITH THE SAFE HANDLING OF THIS MATERIAL ALL OF THE INFORMATION CONTAINED IN THIS MSDS MUST BE CONSIDERED. The customer is responsible for determining the proper personal protective equipment needed for its particular use of this material.

\* Hazardous Materials Identification Systems [HMIS] Revised RAW MATERIALS RATING MANUAL, National Paint & Coatings Association, Fall 1984.

\*\* NFPA 704 Standard System for the Identification of the Fire Hazards of Materials, National Fire Protection Association, 1985

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## TECHNICAL BULLETIN

### PRODUCT WCP-SS (Standard Soft Finish) Stitchbonded Polyester Fabric

FLUID APPLIED REINFORCED ROOFING • REFLECTIVE COATING SYSTEMS

#### DESCRIPTION:

Western Colloid WCP-SS (Tietex T325 or Superior 3/40-7 Soft) is a 2.75 -3.0 ounce stitchbonded style polyester fabric with a soft finish used in the reinforcement of cold process roofing systems. WCP-SS has good strength and elongation. WCP-SS has excellent conformability on semi-smooth or rough surfaces. WCP-SS works well when used over vacuumed, spudded or filled gravel surfaces. It has fewer stitches per inch, which allows for better wetability, which requires less brooming.

WCP-SF is available in: 10 square rolls (40" x 324')

#### PROPERTIES:

Weight	2.75 -3.0 ounce sq. yd. 100 gram sq. meter
Thickness	1.9 mils
Tensile avg.	40.0 lbs
Elongation	61%
Burst Strength	102.2 lbs.
Trapezoid Tear Strength avg.	19. lbs



**WESTERN COLLOID**  
**Material Safety Data Sheet**  
**POLYESTER FABRIC**

Date: 06/025/2002

Chemical Formula: N/A - 100% Stitchbonded Polyester Fabric

**SECTION I - MANUFACTURER INFORMATION**

Manufacturer's Name:	Western Colloid S.C., Inc.	Western Colloid N.C., Inc.
Address:	654 E. 60 <sup>th</sup> St., Los Angeles, CA 90001	700 71 <sup>st</sup> Ave., Oakland, CA 94621
Emergency Phone No.:	323-231-8292	510-430-0270
Information Phone No.:	323-231-8292	510-430-0270

**SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION**

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>%</u>	<u>TLV</u>
None Known			

**SECTION III - PHYSICAL DATA**

Appearance: White Fabric	Evaporation Rate (Butyl Acetate=1): N/A
Odor: None	Specific Gravity (Water=1): N/A
Bolling Point: N/A	Melting Point: 480 °F
Vapor Pressure (mmHG): N/A	% Volatile by Weight: N/A
Water Solubility: Non Soluble	
Vapor Density (Air=1): N/A	

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Auto Ignition Temperature: Unknown  
Flash Point: Unknown  
Extinguishing Media: Various  
Unusual Fire or Explosion Hazards: None - Do not expose to open flame, fabric will melt and may burn.

Special Fire-Fighting Procedures: None

**SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)**

Stability (Thermal, Light): Stable  
Incompatibility (Material to Avoid): None Known  
Hazardous Polymerization: Will Not Occur  
Hazardous Decomposition Products: None

**SECTION VI - HEALTH HAZARDS**

Summary: This product has not been classified as a carcinogen by the Occupational Safety and Health Administration (OSHA) or the National Toxicology Program (NTP).

Acute: No evidence of adverse effects from available information.

Chronic: No evidence of adverse effects from available information.

Medical conditions aggravated by exposure: None Known



DESCRIPTION

Product No. 950 Primer/Sealer - Stain Blocker is a water based, clear, acrylic primer/coating. It is formulated with premium acrylic resins that are designed to stop asphalt residues and oils from staining the acrylic coating system. #950 Primer/Sealer also aids in the adhesion of the acrylic coating to the substrate. #950 Primer/Sealer should be used as a primer coat over existing granulated asphalt roofing, mastics and coatings where staining of the acrylic coating system is a concern. Use over existing solvent based asphalt mastics and coatings on Western Colloid metal sealing systems. Not for use over smooth asphalt emulsion or other smooth asphalt or modified bitumen surfaces.

PHYSICAL PROPERTIES

Color..... Clear when dry
Total Solids.....30% by weight
Consistency..... Light, Roll Brush or Spray
Appearance..... Wet - Milky Liquid
Application Rate..... 1/2 - 1 1/2 gal. per 100 sq. ft.
Application Temperature..... Minimum 50° F
Dry Time (through dehydration).....2 hr. @ 75° F
Cure Time.....12 hr. @ 75° F
Tack free time..... 30 Min.

PREPARATION

Surface must be dry and free of dirt, dust, oil, grease, wax, rust, chalky or loose paint, mildew and any other surface contamination that may inhibit adhesion. Repair any splits, holes or deficiencies in the existing system using #800 Elastic Cement or proper sealing compound prior to application.

APPLICATION

Using roller, brush or spray equipment, apply to the properly prepared surface at the rate of 1/2 -1 gallon per 100 sq. ft. over smooth or metal surfaces. Apply at the rate of 1-1 1/2 gallons per 100 sq. over granulated or rough surfaces. #950 Primer / Sealer should be allowed to completely cure before the application of the top coating.

Wet material and all tools and equipment may be cleaned with water. Rinse tools and equipment with water before using. Mix thoroughly before using. Do not dilute.

PRECAUTIONS: Do not apply #950 Primer / Sealer when surface or air temperature is below 50° F, or if cold weather, rain or fog is expected within forty-eight hours of application. #950 Primer / Sealer cures through dehydration. Drying time may vary depending upon wet film thickness, temperature, humidity and air movement.

READ AND FOLLOW DIRECTIONS CAREFULLY. REFER TO MSDS FOR PROPER HANDLING. NOT DOT REGULATED. STORE CONTAINERS IN COOL, DRY, PROTECTED AREA. KEEP FROM FREEZING

LIMITED WARRANTY

WESTERN COLLOID warrants its products to be of merchantable quality and suitable for the general purpose for which they were intended, when applied in accordance with WESTERN COLLOID's instructions. WESTERN COLLOID does not warrant its products to be suitable for any purpose or use other than for which they were intended. Liability under this warranty is limited to supplying new material without charge, or at WESTERN COLLOID's option, to a refund of the purchase price. In the event of a claim under this warranty, notice must be given in writing at the addresses shown hereon. THIS LIMITED WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESSED WARRANTIES, AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

TEC950 0411C



# MATERIAL SAFETY DATA SHEET

#950 Primer/Sealer Stain Blocker

Prepared according to U.S. OSHA, CMA, ANSI, Canadian WHMIS regulations

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: #950 Primer/Sealer Stain Blocker  
 CHEMICAL FAMILY NAME: Clear Water Based Roof Coating Primer  
 U.N. NUMBER: None  
 U.N. DANGEROUS GOODS CLASS: Non-Regulated Material  
 SUPPLIER/MANUFACTURER'S NAME: Western Colloid S.C., Inc.  
 ADDRESS: 654 E. 60<sup>th</sup> Street, Los Angeles, CA 90001 USA  
 EMERGENCY PHONE: 1-323-231-8292 (For Emergencies)  
 BUSINESS PHONE: 1-800-464-8292 (For product information)  
 BUSINESS FAX: 1-323-231-7648 (Fax)  
 DATE OF PREPARATION: April 2, 2012  
 DATE OF LAST REVISION: July 15, 2009

## SECTION 2 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a translucent, milky liquid with a mild odor. Prolonged or repeated exposure may cause irritation to eyes and skin. It is a non-flammable water based material. This product is not expected to cause long term adverse effects in the environment.

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

NFPA RATING SYSTEM

Non-Regulated

Not Controlled



### HEALTH HAZARDS OR RISKS FROM EXPOSURE:

#### ACUTE:

**INHALATION:** Breathing excessive vapors or mist may cause nose, throat or lung irritation.  
**INGESTION:** Not an expected route of entry. Ingestion can cause distress to the digestive tract.  
**SKIN CONTACT:** Prolonged or repeated skin contact can cause irritation.  
**EYE CONTACT:** Eye contact can cause irritation.

**CHRONIC:** None known

**TARGET ORGANS:** ACUTE: Eye, Respiratory System, Skin CHRONIC: None Known

## SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	HAZARD CLASSIFICATION; RISK PHRASES
Water	7732-18-5	231-791-2	Not Listed	>50%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Acrylic Polymer	25852-37-3	Not Listed	Not Listed	<50%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

**NOTE:** ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format.

## SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.



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**SKIN CONTACT:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and reduce over-exposure.

## SECTION 5 - FIRE-FIGHTING MEASURES

**FLASH POINT:**

Not Flammable

**AUTOIGNITION TEMPERATURE:**

Not Applicable

**FLAMMABLE LIMITS (In air by volume, %):**

Lower (LEL): NA                      Upper (UEL): NA

**FIRE EXTINGUISHING MATERIALS:**

As appropriate for surrounding fire. Carbon dioxide, foam, dry chemical, halon, or water spray.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

This product is non-flammable, however dried product can burn.

Explosion Sensitivity to Mechanical Impact:

Not Sensitive.

Explosion Sensitivity to Static Discharge:

Not Sensitive

**SPECIAL FIRE-FIGHTING PROCEDURES:**

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Personnel should be trained for spill response operations.

**SPILLS:** Stop leak if safe to do so. Pick up spilled material using suitable absorbent and place in a closed container for proper disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

## SECTION 7 - HANDLING and STORAGE

**RECOMMENDED STORAGE and HANDLING CONDITIONS:** Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Protect from physical damage.

**HANDLING (PERSONNEL):** Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapors, mists, or dust. Do not eat, drink or smoke in work area. Wash thoroughly after handling.

## SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

**EXPOSURE LIMITS/GUIDELINES:**

Chemical Name	CAS#	ACGIH TWA	OSHA TWA
Water	7732-18-5	Not Listed	Not Listed
Acrylic Polymer	25852-37-3	Not Listed	Not Listed

Currently, international exposure limits are not established for all the components of this product. Please check with competent authority in each country for the most recent limits in place.



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**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.

**EYE PROTECTION:** Safety glasses or chemical goggles where splashing is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

**HAND PROTECTION:** Use gloves to prevent skin contact as appropriate. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate to prevent skin contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

## SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

<b>PHYSICAL STATE:</b>	Liquid
<b>APPEARANCE &amp; ODOR:</b>	Translucent. Milky liquid with a mild odor.
<b>ODOR THRESHOLD (PPM):</b>	Mild
<b>VAPOR PRESSURE (mmHg):</b>	17mmHg
<b>VAPOR DENSITY (AIR=1):</b>	<1
<b>EVAPORATION RATE (nBuAc = 1):</b>	<1
<b>BOILING POINT (C°):</b>	100°C
<b>MELTING POINT (C°):</b>	Not Applicable
<b>pH:</b>	Not Available
<b>SPECIFIC GRAVITY 20°C: (WATER =1)</b>	1.03
<b>SOLUBILITY IN WATER (%):</b>	Dilutable

## SECTION 10 - STABILITY and REACTIVITY

**STABILITY:** Product is stable

**DECOMPOSITION PRODUCTS:** When heated to decomposition Carbon monoxide, carbon dioxide fumes

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** None known

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None known.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**TOXICITY DATA:**

No LD50 Data Available

**SUSPECTED CANCER AGENT:** Ingredients are not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies. Crystalline Silica

**IRRITANCY OF PRODUCT:** Contact with this product can be irritating to exposed skin, eyes and respiratory system.

**SENSITIZATION OF PRODUCT:** This product is not considered a sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No information concerning the effects of this product and its components on the human reproductive system.

## SECTION 12 - ECOLOGICAL INFORMATION

**ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

**ENVIRONMENTAL STABILITY:** No Data available at this time.

**EFFECT OF MATERIAL ON PLANTS or ANIMALS:** No Data available at this time.



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EFFECT OF CHEMICAL ON AQUATIC LIFE: No Data available at this time.

## SECTION 13 - DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

## SECTION 14 - TRANSPORTATION INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Non-Regulated Material

HAZARD CLASS NUMBER and DESCRIPTION: Not Applicable

UN IDENTIFICATION NUMBER: Not Applicable

PACKING GROUP: Not Applicable.

DOT LABEL(S) REQUIRED: Not Applicable

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004): Not Applicable

MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is not classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is not classified as Dangerous Goods by the International Maritime Organization.

## SECTION 15 - REGULATORY INFORMATION

### UNITED STATES REGULATIONS

**SARA REPORTING REQUIREMENTS:** This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

### SARA 311/312:

Acute Health: Yes                      Chronic Health: No                      Fire: No                      Reactivity: No

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** None of the ingredients are on the California Proposition 65 lists.

### CANADIAN REGULATIONS:

**CANADIAN DSL/NDL INVENTORY STATUS:** All of the components of this product are on the DSL Inventory

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** No component of this product is on the CEPA First Priorities Substance Lists.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** This is not considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and is therefore not subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS).

### INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:

Listed or Exempt

Australian Inventory of Chemical Substances (AICS):

Listed or Exempt

Korean Existing Chemicals List (ECL):

Listed or Exempt

Japanese Existing National Inventory of Chemical Substances (ENCS):

Listed or Exempt

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

Listed or Exempt

Swiss Giftliste List of Toxic Substances:

Listed or Exempt

U.S. TSCA:

Listed or Exempt



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## SECTION 16 - OTHER INFORMATION

PREPARED BY: Paul Elgbrett

MSDS Authoring Services

**Disclaimer:** This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Western Colloid S.C., Inc.. The data on this sheet are related only to the specific material designated herein. Western Colloid S.C., Inc. assumes no legal responsibility for use or reliance upon these data.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**SECTION VII - EMERGENCY & FIRST AID**

Inhalation: N/A  
Skin: N/A  
Eyes: N/A  
Ingestion: N/A

**SECTION VIII - INDUSTRIAL HYGIENE CONTROL MEASURES**

Ventilation: N/A  
Respiratory Protection: N/A  
Protective Gloves: N/A  
Eye Protection: N/A  
Other Protective Equipment: N/A

**SECTION IX - ENVIRONMENTAL PROTECTION INFORMATION**

Steps in Case of Spill: Is a solid fabric. N/A

Waste Disposal Method: Normal Landfill – Subject to local and federal regulations.

Handling and Storage Precautions: Store in cool dry area away from direct sunlight

DOT Shipping Requirements: Not DOT regulated.

**SECTION X - OTHER INFORMATION**

	Health	Flammability	Reactivity
HMIS* Rating:	0	0	0
NFPA** Rating	0	0	0

Notice: These ratings involve data and interpretations that may vary from company to company and are intended only for rapid, general identification of the magnitude of the specific hazard. TO DEAL ADEQUATELY WITH THE SAFE HANDLING OF THIS MATERIAL ALL OF THE INFORMATION CONTAINED IN THIS MSDS MUST BE CONSIDERED. The customer is responsible for determining the proper personal protective equipment needed for its particular use of this material.

- \* Hazardous Materials Identification Systems [HMIS] Revised RAW MATERIALS RATING MANUAL, National Paint & Coatings Association, Fall 1984.
- \*\* NFPA 704 Standard System for the Identification of the Fire Hazards of Materials, National Fire Protection Association, 1985

The information contained herein is furnished without warranty of any kind. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

Information on this form is furnished solely for the purpose of compliance with OSHA Hazard Communication Standard, 20 CFR 1910.1200, the Workplace Hazardous Material Information System (WHMIS), and shall not be used for any other purpose.