



ADVANCED POLYMER, INC.

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AP-0282

AP-0282 is a self-emulsifiable, high molecular weight, elastomeric silicone additive that has been designed to form a protective barrier on porous and semiporous surfaces. AP-0282 is a clear, low VOC microemulsion that is readily reducible with water.

CHARACTERISTICS

- Protects brick, cinder block, stucco, etc. from excessive weathering
- Water resistant - Prevents water wear
- Non-yellowing - Assures color stability
- Effective on all porous and semi-porous building materials
- Can be formulated into surface coatings/finishes

APPLICATION & FORMULATION

Overcoat

- Prepare a 10% active solution by adding approx. 6.7 parts water to 3.3 parts AP-0282.
- Spray or brush onto cool, clean, dry porous or semi-porous surface.
- Allow the treated substrate to dry for 24 hours before exposing to water.
- When used on marble surfaces, buff to achieve luster.

Paint Formulation Addition

- Incorporate 2% to 4% on the weight of the paint formulation of AP-0282.
- Imparts water repellency and enhanced weathering properties to the finish.

TYPICAL PROPERTIES

Appearance:	Clear liquid
Solid Content:	30%
Ionic Nature:	Mildly Cationic
Specific Gravity (@ 25°C):	1.00
pH:	6.9
Volatile Organic Content:	<30 g/l

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PERFORMANCE DATA

- A sample dilution of 6.3% AP-0282, and 92.7% water (dilution of 2% solids) was prepared and hand sprayed onto a 475 cm² area of an untreated cinder block.
- After treating the block was allowed to dry at approximately 75°F for 24 hours.
- At the end of 24 hours several drops of water were placed on the treated area and assigned a water repellent rating number at different time intervals over a period of 6 ½ hours

Following is a summary of the results:

TIME	RATING
Initial Rating	1
15 minutes	1
30 minutes	1
45 minutes	1-
60 minutes	2+
90 minutes	2
120 minutes	2-
225 minutes	5
240 minutes	5
255 minutes	5
300 minutes	6
405 minutes	7

Rating:

1. No Wetting.
2. No wetting, dull drops.
3. Droplet shape is poor.
4. Slight wetting, poor droplets.
5. Wetting
6. Water penetration
7. Surface is dry

PACKAGING

AP-0282 is available in 8 oz. samples and 441-lb. drums.

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I want to know more!

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You may also be interested in . . .

- AP-0280
- APG-1430
- APS-222
- APS-328

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Revised July 19, 2010

AP-0282

Section 1 - Product Identity

Product Name: AP-0282
Chemical Name/Family: Reactive organo-modified silicone elastomer emulsion
Product Use: Architectural Coatings
24 Hour Emergency Number: 800-424-9300
24 Hour Chemtrec Number: 800-424-9300

Section 2 – Hazardous Composition/Information on Ingredients

CHEMICAL	CAS #	TWA	STEL	Ceiling	Percent
Methyl Alcohol	67-56-1	200ppm	250ppm		<1

OSHA Hazardous Component (29CFR1910.1200): Methyl Alcohol

Section 3 - Hazard Identification

Emergency Overview:

Color: Clear to slightly yellow.
Physical State: Liquid
Odor: Mild odor
Primary Routes of Entry: Inhalation: No Dermal: Yes Ingestion: Yes

Potential Health Effects:

Skin: Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.
Eye: Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.
Ingestion: Although ingestion is unlikely, liquid would irritate upper digestive tract if swallowed.
Inhalation: Exposure to high vapor concentrations may cause eye and respiratory tract irritation, headache, dizziness, nausea, loss of coordination and loss of consciousness.

Medical Condition Generally Aggravated by Exposure: No information available.

Section 4 - First Aid Measures

Skin Contact: Immediately wash skin with soap and water. Wash contaminated clothing before reuse.
Eye Contact: Immediately flush eyes with plenty of water. Call a physician.
Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
Inhalation: Immediately remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Please note: Symptoms may be delayed; prompt medical attention may be required. Call a physician.

Section 5 - Fire-Fighting Measures

Flash Point (method used):	N/A
Flammable Limits in Air (% by Volume):	N.D.
Fire & Explosion Hazard:	No data available.
Extinguishing Media:	Water spray, Foam, Dry Chemical, CO2
Special Fire Fighting Procedures:	Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment.
Unusual Fire and Explosion Hazard:	None
Hazardous Decomposition Products:	Combustion may produce CO2, CO and nitrous oxides.

HAZARD CLASSIFICATION

Health Hazard:	1
Flammability:	1
Reactivity:	0

Section 6 - Accidental Release Measures

Methods for Cleaning Up:	Soak up with sawdust, sand, oil dry or other absorbent material.
Environmental Precautions:	Remove and dispose of in accordance with federal, state, and local laws.
Personal Precautions:	Wash hands thoroughly after use.

Section 7 - Handling & Storage

Handling Conditions:	Use only in well ventilated areas. Avoid contact with eyes. Avoid contact with skin. Avoid breathing vapor. When using do not eat, drink or smoke.
Storage Conditions:	Store in a well-ventilated place at temperatures below 120°F. Keep container tightly closed. Keep from freezing.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls:	
Ventilation:	General area exhaust ventilation required.
Respiratory Protection:	NIOSH approved respirator as needed.
Eye Protection:	Safety glasses should be worn.
Skin Protection:	Rubber apron and rubber or plastic gloves should be worn
Other Protective Equipment:	An emergency eye wash should be readily accessible to the work area.
Work Hygienic Measures:	Wash hands after use.
Exposure Guidelines:	No data available.

Section 9 - Physical and Chemical Properties

Boiling Point:	212°F
pH	N.D.
Specific Gravity (H ₂ O=1):	1.0
Vapor Pressure:	N/A
Vapor Density (Air=1):	N/A
Percent Volatile by Weight:	70
Evaporation Rate (BuAc=1):	N.A.
VOC	<1% or < 30 grams/liter
Solubility in Water:	Disperses readily using mixer
Appearance and Odor:	Clear to slightly yellow liquid with mild odor.

Section 10 - Stability and Reactivity

Stability:	Stable:	X	Unstable:
Condition to Avoid:	Avoid sparks or combustion sources. Use with adequate ventilation.		
Incompatibilities	None.		
Hazardous Decomposition or By-Products:	None known.		
Hazardous Polymerization:	May Occur:		May Not Occur: X

Section 11 - Toxicological Information

Acute Toxicity:	No information available		
Chronic Toxicity:	No information available		
Sensitization:	No information available		
Mutagen Effects:	No information available		
Carcinogenicity:			
NTP:	No	IARC Monograph:	No
		OSHA Regulated:	No

Section 12 - Ecological Information

Ecotoxicity Persistence and Degradability:	No information available
Bio-accumulative Potential:	No information available

Section 13 - Disposal Considerations

Waste Disposal Method:	Chemical additions, processing or otherwise altering this material may make the waste management information presented in the MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that the state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material. Not classified as a RCRA hazard.
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Section 14 - Transport Information

Land Transport (DOT): Not subject to DOT.
Sea Transport (IMDG): Not subject to IMDG Code.
Air Transport (IATA): Not subject to IATA regulations.

Section 15 – Regulatory Information

International Inventories

TSCA (USA) Yes
DSL (Canada) Yes
EINECS (Europe) Polymer exempt
ENCS (Japan) No information available.
IECSC (China) Yes
KECL (Korea) Yes
PICCS (Philippines) Yes
AICS (Australia) Yes
NZIOC (New Zealand) Yes

Federal Regulations

SARA 313 Methyl alcohol
SARA 311/312 Acute: Yes Chronic: Yes Fire: No Reactive: No Pressure: No
Clean Water Act: No data available.
Clean Air Act, Section 112 HAPs (see 40CFR61) No data available.

State Regulations

California Proposition 65: This product contains the following Proposition 65 chemicals

<u>CHEMICAL</u>	<u>CAS#</u>	<u>Percent</u>
None		

Section 16 - Other Information

Date PreparedOctober 17, 2005
Prepared ByAPI
Date RevisedJuly 19, 2010
Revised ByAPI

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