



ADVANCED POLYMER, INC.

GET THE API ADVANTAGE . . .

APS-ME142D

APS-ME142D is a silicone resin/silane microemulsion designed for use as a clear penetrating water repellent and sealer for concrete, grout, stucco, split-face block, brick and natural stone. Due to the small particle size, APS-ME142D provides superior penetration and will not change the appearance of the treated substrate.

CHARACTERISTICS

- Superior penetration for maximum coverage.
- Low dilution levels required for maximum performance.
- Chemically bonds to the treated substrate increasing the lifespan by preventing potential damage from repeated freeze/thaw cycles.
- Excellent storage stability. Freeze/thaw stable and elevated temperature (50°C) stable.
- Outstanding moisture vapor transmission properties result in no blistering, peeling or cracking.

APPLICATION INFORMATION

- New concrete should be allowed to cure a minimum of 28 days before applying APS-ME142D.
- The surface to be treated should be clean and free from any contaminants (dust, dirt, oil, grease, curing compounds, paint/coatings, efflorescence, etc.) before applying APS-ME142D.
- If contaminants need to be removed from the substrate to be treated, cleaners such as acid etchers, solvent based degreasers, caustic soda solution, or high pressure washing can be used.
- If strong acid or alkali cleaning agents are used, make sure that the surface is neutralized before applying APS-ME142D.
- APS-ME142D can be diluted with tap water. Dilution concentrations and coverage rate will depend on the type and porosity of the substrate.

TYPICAL PROPERTIES

Appearance:	Clear to slightly opaque liquid
Non-Volatile Content:	30%
Specific Gravity (@ 25°C):	1.0
pH:	5.5
VOC:	270 g/l

Advanced Polymer, Inc.
400 Paterson Plank Road
Carlstadt, NJ 07072
Phone: (201) 933-0600
Fax: (201) 933-8442
www.advpolymer.com



GET THE API ADVANTAGE . . .

APS-ME142D

- In general dilution rates ranging from {5% APS-ME142D (as supplied) + 95% tap water} to {12% APS-ME142D (as supplied) + 88% tap water} will cover most applications.
- Two coats of the dilution should be applied wet-on-wet to ensure the best coverage. Do not allow second coat to pool or puddle on treated surface.
- APS-ME142D can be applied by brush, roller, spray or dip.
- A minimum of 24 hours should be allowed before treated surface comes in contact with water. Maximum water repellency will occur approximately 72 hours after application, depending on the curing conditions.

Starting Point Formulation for Concrete	
Component	Concentration (wt%)
APS-ME142D	8.3
Water	91.7
A small amount of biocide should be added for long term shelf stability.	
<ul style="list-style-type: none">• Apply the above dilution using a paint brush.• Apply two coats wet on wet (approximately 10 to 15 minutes between coatings). Do not allow the second coat to pool or puddle on treated substrate.• Allow the coated concrete to cure for 24 hours before contact with water is made. Maximum water repellency will be observed in approximately 72 hours, depending on curing conditions.	

PACKAGING

APS-ME142D is available in 8 oz. samples and 441-lb drums.

You may also be
interested in . . .

Advanced Polymer, Inc.

400 Paterson Plank Road
Carlstadt, NJ 07072
Tel: (201) 933-0600
Fax: (201) 933-8442
www.advpolymer.com

I want to know more!

technical@advpolymer.com

The information set forth herein is furnished free of charge and based on technical data that Advanced Polymer, Inc. believes to be reliable. It is intended for use by persons having technical skill at their own risk. Because conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. Nothing herein is to be taken as license to operate under or a recommendation to infringe any patents.

Revised February 8, 2011

APS-ME142D

Section I Product Identity

Product Name	APS-ME142D
Chemical Name/Family	Silicone based microemulsion
CAS Registry	Mixture
24 Hour Emergency Number	800-424-9300
24 Hour Chemtrec Number	800-424-9300
All ingredients are listed in EPA's TSCA list of chemical substances	

Section II Hazardous Components/Composition Information

CHEMICAL :	CAS #:	USOS:	TWA:	STEL:	PERCENT:

Section III Physical and Chemical Properties

Boiling Point	NA
Specific Gravity (H ₂ O=1)	1.0
Vapor Pressure	Negligible
Vapor Density (Air=1)	NA
Non-volatile Content	30
Evaporation Rate (BuAc=1)	ND
Volatile Organic Content	270 g/l
Solubility in Water	Dispersible
Appearance and Odor	Clear to slightly opaque fluid with mild odor

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	>200°C (Closed Cup)
Flammable Limits in Air (% By Volume)	ND
Extinguishing Media	Foam, dry chemical or CO ₂ .
Special Fire Fighting Procedures:	Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment.
Unusual Fire and Explosion Hazard	Combustion can produce carbon dioxide, carbon monoxide

Section V Reactivity Data

Stability	Stable
Conditions to Avoid	Store in a well-ventilated place at temperatures below 120 F. Keep container tightly closed. Keep from freezing
Incompatibilities	Will hydrolyze with water, but no hazard. Avoid contact with strong oxidizing agents and acids
Hazardous Decomposition or By Products	Combustion may produce CO ₂ , CO and methanol (flammable liquid)
Hazardous Polymerization	May Not Occur

Section VI Health hazard Data

Primary Routes of Entry	Inhalation: NO	Dermal: YES	Ingestion: YES
Acute Health hazard	No information available		
Chronic Health Hazard	No information available		
Carcinogenicity			
NTP: No	IARC Monograph: No	OSHA Regulated:No	

Signs and Symptoms of Exposure:

Skin Contact	Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.
Eye Contact	Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. May cause severe irritation
Ingestion	Although ingestion is unlikely, liquid may irritate upper digestive tract if swallowed. May cause severe irritation.
Inhalation	May cause severe irritation.

Medical Condition Generally Aggravated by Exposure

None known

Emergency First Aid Procedures

Eyes	Immediately flush eyes with plenty of water. Seek medical attention.
Skin	Immediately wash skin with soap and water. Wash contaminated clothing before reuse.
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 VII Precautions for Safe Handling and Use

Steps to be Taken in Case the Material is Released or Spilled:

Turn off ignition sources. Soak up with sand, oil dry or other absorbent material.

Waste Disposal Method:

Dispose of according to EPA, State and Local regulations.

Section VIII Special Precautions

Precautions to be Taken in Handling and Storage:

Store in a well-ventilated place at temperatures below 120°F. Keep container tightly closed. Keep from freezing *** **Agitate contents of container before using** ***

Section IX Control Measures

Respiratory Protection		
Ventilation	Local exhaust	Recommended
	Mechanical	Adequate ventilation systems
	Special	
	Other	
Eye Protection	Safety glasses should be worn	
Protective Gloves	Rubber or plastic gloves should be worn	
Protective Clothing	Rubber apron	
Other Protective Equipment	Eye wash equipment and safety shower should be available. NIOSH approved respirator as needed.	
Other Precautions	Wash hands after use.	

Section X SARA Title III

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of SECTION 331 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 and of 40 CFR 371

CAS #	Chemical Name	Percent by Weight

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

Section XI Transportation Information

SHIPPING INFORMATION

APS-ME142D is classified as non-hazardous and is not regulated by DOT.

Hazard Ratings

Health	1
Flammability	0
Reactivity	0

Date Prepared October 19, 2010

Prepared By API

Date Revised

THE INFORMATION AND RECOMMENDATIONS HEREIN, ARE TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. NO WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED.

TO THE CUSTOMERS OF ADVANCED POLYMER, INC.

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, express or implied:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss of damage, direct, or consequential arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use. The user assumes all risk and liability whatsoever in connection therewith.

No statement or recommendation contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer. Since the manufacturer of the product described in this technical data sheet has no means of controlling the final use of the product by the consumer for the user, it is the responsibility of the immediate purchaser and any intermediate seller or sellers to inform the user of the purposes for which the product may be fit and suitable and of the properties of the product, including the precautionary measures which must be taken in order to ensure the safety of the user and of other third persons and property.

No statement made herein shall be taken as an authorization or inducement to practice any patented invention without appropriate license.