



ADVANCED POLYMER, INC.

GET THE API ADVANTAGE . . .

APS-ME143

APS-ME143 is a silicone resin/silane/fluorochemical microemulsion designed for use as a clear penetrating water and stain repellent sealer for concrete, grout, natural stone and unglazed ceramic tile. Due to the small particle size, APS-ME143 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.
- Provides oleophobic properties – treated substrate will resist oil and grease.
- Chemically bonds to the treated substrate increasing the lifespan by preventing potential damage from repeated freeze/thaw cycles.
- Excellent emulsion 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-ME143.
- The surface to be treated should be clean and free from any contaminants (dust, dirt, oil, grease, curing compounds, paint/coatings, efflorescence, etc.).
- If contaminants need to be removed from the substrate to be treated, cleaning methods such as acid etching, solvent based degreasing, caustic soda solution rinsing, 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 the APS-ME143.
- APS-ME143 can be diluted with tap water. Dilution concentrations and coverage rate will depend on the type of substrate and the porosity of the substrate.

TYPICAL PROPERTIES

Appearance:	Clear to slightly opaque liquid
Non-Volatile Content:	27%
Specific Gravity (@ 25°C):	1.0
pH:	5.5

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- In general dilution rates of [9.3% APS-ME143 (as supplied) + 90.7% tap water] to [22.2% APS-ME143 (as supplied) + 77.7% tap water] will cover most applications.
- Apply either one or two coats wet on wet with 10 to 15 minutes between coatings. If a second coating is applied, make sure that the second coat is not allowed to pool or puddle on the treated surface. The formulation must be fully absorbed.
- APS-ME143 can be applied by brush, roller, spraying or dipping.
- A minimum of 24 hours should be allowed before treated surface comes in contact with water. The maximum water repellency will occur 72 hours after application depending on the curing conditions.

Starting Point Formulation for Concrete	
Component	Concentration (wt%)
APS-ME143	18.5
Water	81.5
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 either one or two coats wet on wet with 10 to 15 minutes between coatings. If a second coating is applied, make sure that the second coat is not allowed to pool or puddle on the treated surface.• Water, oil and stain repellency will be observed in approximately 24 hours. Maximum performance is generally observed in 72 hours, depending on curing conditions.	

PACKAGING

APS-ME143 is available in 8 oz. samples and 441-lb drums.

You may also be
interested in . . .

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I want to know more!

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Revised January 17, 2011

APS-ME143

Section I Product Identity

Product Name	APS-ME143
Chemical Name/Family	Silicone/fluorochemical emulsion
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	27
Evaporation Rate (BuAc=1)	ND
Solubility in Water	Dispersible
Appearance and Odor	Clear to slightly opaque liquid 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-ME143 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

Prepared By

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