



ADVANCED POLYMER, INC.

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APS-232HCA

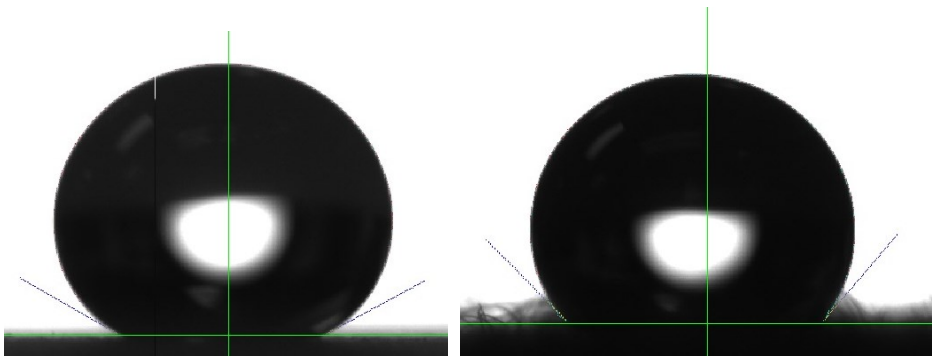
APS-232HCA is a reactive silicone resin that produces a durable, superhydrophobic treatment when applied to fabric, leather, natural stone, grout, wood, etc. APS-232HCA will not change the appearance of the treated substrate and treatment will only be realized when water or other liquids come in contact with the treated surface. Depending on the type of substrate the static contact angle of deionized water on the surface can range from 120° to greater than 150°.

CHARACTERISTICS

- Superhydrophobic properties on various substrates.
- Excellent durability.
- Will not change the appearance of the treated substrate.

APPLICATION

For testing APS-232HCA was diluted with Ispar G (odorless mineral spirits) to 2.5% and 3.0% actives (5% to 6% as supplied) and applied via brush or pump spray to grout, paper, acrylic woven fabric and leather. The treated substrates were allowed to dry/cure for 24 hours and were then tested for static contact angle measurement following the application of a droplet of deionized water. Pictures of the water droplet on leather and acrylic fabric are shown below:



Leather treated with 3% active APS-232HCA. A droplet of DI water was placed on the treated leather and the contact angle was measured to be >150°

Acrylic fabric treated with 2.5% active APS-232HCA. A droplet of DI water was placed on the treated fabric and the contact angle was measured to be >134°

TYPICAL PROPERTIES

Appearance:	Clear Liquid
Specific Gravity (25°C):	0.996
Activity (%):	50%
% VOC:	~3.0

See the list of performance data on the second page...

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PERFORMANCE DATA

The following is a contact angle study from Ramé-Hart Instrument Co. measuring the average static contact angle in degrees after applying a droplet of deionized water:

		Treatment	
		Untreated	APS-232HCA
Substrate	Grout	35.6°	143.8°
	Paper	**	120.4°
	Acrylic Fabric	**	134.3°
	Leather	**	150.4°

** Water absorbed too quickly for static contact angle to be taken.
Instrument details : Ramé-Hhart Model 250 s/n 130924
Ambient Conditions : 75.6 °F, 43% Relative Humidity

SUITABLE DILUENTS

APS-232HCA can be diluted in mineral spirits, aromatic hydrocarbons as well as cyclic organic silicones such as APS-D4, APS-D5. APS-232HCA should not be diluted with MEK or other water-containing solvents.

PACKAGING

APS-232HCA is available in 4 oz. samples and 419-lb drums.

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