

## AUSSIE Skin – Chemical Compatibility Chart

AVM's **Aussie Skin 550G** is composed of a thick heavy-duty HDPE film with an adhesive granulated surface that forms a robust bond with concrete when it is poured against it. HDPE is a thermoplastic polymer and serves as a highly versatile material given its high strength, but it also possesses a very low permeance making it a very good barrier to water vapor too. HDPE is resistant to many different solvents, chemicals, and vapors (such as Radon) allowing it to be installed in various site conditions without the concern of it breaking down or deteriorating. Because of these properties of HDPE, the Aussie Skin is a very robust waterproofing membrane.

AVM's **Aussie Skin 560G** is produced with an 80-mil thick HDPE liner that enhances performance and making it resistant to methane and other harmful VOC's. It has a Los Angeles Research Report (LARR) Approval and the Los Angeles County's approval. Specific product testing can be found on the **Aussie Skin 560G** Technical Data Sheet found on the AVM website at [www.AVMIndustries.com](http://www.AVMIndustries.com).

Please refer to the following pages for a chemical compatibility chart for the **Aussie Skin 550G/560G**. Note that the charts reflect resistance levels at temperatures of 68°F (20°C) and 140°F (60°C) as elevated temperatures of certain solvents/chemicals can impact/impair the performance of the HDPE layer of **Aussie Skin 550G/560G**. The information and data contained herein are intended to serve only as a guide. No performance warranty is intended or implied.

### Chemical Compatibility for HDPE Waterproofing Products Aussie Skin 550G/ 560G

Chemical	Resistance Levels	
	68°F (20°C)	140°F (60°C)
Acetaldehyde	R	R
Acetic Acid 10%	R	R
Acetic Acid (Glac.anh.)	R	R
Acetone	R	R
Acetylene	R	R
Acrylonitrile	R	R
Alcohols	R	R
Aliphatic esters	R	R
Alkyl Chlorides	R	R
Alum	R	R
Aluminum chloride	R	R
Aluminum sulphate	R	R
Ammonia, anhydrous	R	R
Ammonia, aqueous	R	R
Ammonium Chloride	R	R
Amyl Acetate	R	R
Aniline	R	R
Aromatic solvents	R	N
Ascorbic acid	R	R
Beer	R	R
Boric Acid	R	R

Chemical	Resistance Levels	
	68°F (20°C)	140°F (60°C)
Brines, saturated	R	R
Bromide (K) Solution	R	R
Butyl acetate	R	L
Calcium Chloride	R	R
Carbon Disulfide	R	N
Carbonic Acid	R	R
Carbon tetrachloride	N	N
Caustic soda & potash	R	R
Chlorine (dry)	L	N
Chlorine (wet)	L	N
Chlorides of Na, K, Ba	R	R
Chloroacetic Acid	R	R
Chlorobenzene	N	N
Chloroform	N	N
Chloro-sulfonic Acid	N	N
Chromic Acid 80%	R	N
Citric Acid	R	R
Copper salts (most)	R	R
Cyclohexane	N	N
Detergents, synthetic	R	R
Emulsifiers, concentrated	R	R

R Resistant    L Limited Resistant    N Not Recommended    D No Data

For additional or specific questions regarding pre-hydration of the Aussie Clay 590, please consult your local AVM Sales Representative or the Technical Services department at: 888.414.1041 or 818.888.0050.

Chemical Compatibility for HDPE Waterproofing Products Aussie Skin 550G/ 560G

Chemical	Resistance Levels	
	68°F (20°C)	140°F (60°C)
Esters	D	D
Ether	R	R
Fatty Acids	R	R
Ferric Chloride	R	R
Ferrous Sulfate	R	R
Fluorinated refrigerants	R	N
Fluorine, dry	N	N
Fluorine, wet	N	N
Fluo-silicic Acid	R	R
Formaldehyde 40%	R	R
Formic Acid	R	R
Fruit Juice	R	R
Gelatin	R	R
Glycerin	R	R
Glycols	R	R
Glycol, ethylene	R	R
Glycolic acid	R	R
Hexamethylene diamine	R	R
Hexamine	R	R
Hydrazine	R	R
Hydrobromic Acid 50%	R	R
Hydrochloric Acid 10%	R	R
Hydrochloric Acid (conc.)	R	R
Hydrocyanic Acid	R	R
Hydrofluoric Acid 40%	R	R
Hydrofluoric Acid 75%	R	R
Hydrogen Peroxide 30%	R	R
Hydrogen Peroxide 30-90%	R	N
Hydrogen Sulfide	R	R
Hypochlorite	R	R
Hypochlorite (Na 12-14%)	R	R
Iso-Butyl-acetate	D	D
Ketones	R	R
Lactic Acid (90%)	R	R
Lead Acetate	R	R
Lead perchlorate	D	D
Lime	R	R

Chemical	Resistance Levels	
	68°F (20°C)	140°F (60°C)
Maleic Acid R	R	D
Manganate, potassium (K)	R	R
Meat Juices	R	R
Mercuric Chloride	R	R
Mercury	R	R
Methanol	R	N
Methylene Chloride	L	N
Milk	R	R
Moist air	R	R
Molasses	R	R
Monoethanolamide	D	D
Naphtha	N	N
Naphthalene	R	D
Nickel salts	R	R
Nitric Acid (<25%)	R	R
Nitric Acid (50%)	R	N
Nitric Acid (90%)	N	N
Nitric Acid (fuming)	N	N
Nitrate (Na)	R	R
Oils: diesel	R	N
Oils: essential	R	N
Oils: lube + aromatic add.	R	R
Oils: mineral	R	R
Oils: vegetable aD animal	R	N
Oxalic Acid	R	R
Ozone	R	L
Paraffin wax	R	R
Perchloric Acid	R	R
Petroleum spirits	R	R
Phenol	R	R
Phosphoric Acid (20%)	R	R
Phosphoric Acid (95)	R	R
Phosphorus chlorides	N	N
Phosphorus pentoxide	R	R
Phthalic Acid	R	R
Picric Acid	R	R
Pyridine	R	R

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**Chemical Compatibility for HDPE Waterproofing Products Aussie Skin 550G/ 560G**

Chemical	Resistance Levels	
	68°F (20°C)	140°F (60°C)
Salicylic aldehyde	R	R
Sea Water	R	R
Silicic acid	R	R
Silicone fluid	R	R
Silver nitrate	R	R
Sodium Carbonate	R	R
Sodium Peroxide	R	D
Sodium Silicate	R	R
Sodium Sulfide	R	R
Stannic Chloride	R	R
Starch	R	R
Sugar, syrups & jams	R	R
Sulfamic acid	D	D
Sulphates (Na, K, Mg, Ca)	R	R
Sulphur	R	N
Sulfur Dioxide (dry)	R	R
Sulfur Dioxide (wet)	R	R
Sulphur Dioxide (96%)	R	R

Chemical	Resistance Levels	
	68°F (20°C)	140°F (60°C)
Sulphur Trioxide	N	N
Sulfuric Acid (<50%)	R	R
Sulfuric Acid (70%)	R	R
Sulfuric Acid (95)	R	R
Sulfuric Acid, fuming	R	N
Sulphur chlorides	D	D
Tallow	R	D
Tannic Acid (10%)	R	R
Tartaric Acid	R	R
Tetrachloroethene	R	N
Urea	R	R
Vinegar	R	R
Water, Distilled	R	R
Water, soft	R	R
Water, hard	R	R
Wetting agents (<5%)	R	R
Yeast	R	R
Zinc Chloride	R	R

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