

Polymer-modified bitumen underlayment products

Manufacturer	Product name	Surface ¹	Used in high-temperature applications (such as under metal shingles)	Suitable roof covering	Minimum application temperature	Maximum exposure time ²	Comments
ALCO-NVC Inc.	Alco Shield Ice and Water Protector	Granular	No	Asphalt shingles, clay tile, concrete tile, slate, wood shakes/shingles	40 F and rising	See Comments	The choice between granular and smooth surface is up to the contractor; the surface does not affect product performance. The granular surface helps protect the product from UV degradation. Given moderate temperature and sun, a 60-day exposure period is possible though immediate coverage is recommended. In temperatures 80 F and higher and high-humidity regions, Alco Shield HT may be better under tile. Contact tile or slate manufacturer for specifications.
	Alco Shield Smooth	Smooth	Yes, up to 220 F	Asphalt shingles, clay tile, concrete tile, slate, wood shakes/shingles	40 F and rising	60 days	The choice between granular and smooth surface is up to contractor's preference; the surface does not affect product performance. In temperatures of 80 F and higher and high-humidity regions, Alco Shield HT may be better under tile. Contact tile or slate manufacturer for specifications.
	Alco Shield HT	Smooth	Yes, up to 240 F	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	40 F and rising	90 days	Designed for metal roof systems; may be better under tile in temperatures of 80 F and higher and high-humidity regions
Andek Corp.	Flashband	Smooth	Yes	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	40 F and rising	Indefinite	
Atlas Roofing Corp.	WeatherMaster™ Ice & Water Protection	Granular	No	Asphalt shingles, slate, wood shakes/shingles	35 F and rising	45 days	
	WeatherMaster Tile Seal	Smooth	Yes, up to 260 F	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	45 F and rising	180 days	Features a heavier mat and reinforcement; intended for use under tile
	WeatherMaster PolySeal	Smooth	Yes, up to 260 F	Asphalt shingles, metal, slate, wood shakes/shingles	40 F and rising	45 days	Intended for use under metal
BITEC Inc.	MAT-40™	Smooth	Yes, exceeds 260 F	Clay tile, metal, slate	55 F	120 days	Specifically for use under metal
	DEFEND™	Granular	No	Asphalt shingles, concrete tile, slate, wood shakes/shingles	See Comments	60 days	Bonding to roof deck is slower at temperatures lower than 50 F
Carlisle Coatings & Waterproofing Inc.	CCW WIP 100	Granular	No	Asphalt shingles	40 F and rising	14 days	
	CCW WIP 200	Smooth	No	Asphalt shingles	40 F and rising	30 days	
	CCW WIP 300HT	Smooth	Yes	Asphalt shingles, metal	40 F and rising	60 days	Specifically designed for use under metal
	CCW WIP 400	Smooth	No	Asphalt shingles	40 F and rising	30 days	
	CCW WIP 401LT	Smooth	No	Asphalt shingles	30 F and rising	30 days	Designed for application during cooler months (such as during winter)
	CCW WIP 403HR	Smooth	Yes, up to 240 F	Asphalt shingles	40 F and rising	30 days	

¹"Smooth" surfaces do not have sand or granular surfaces; however, they may have anti-slip patterns. Some smooth patterns may be more pronounced than others.

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CertainTeed Corp.	WinterGuard™ Waterproofing Shingle Underlayment	Granular (see Comments)	No	Asphalt shingles, clay tile, concrete tile, slate, wood shakes/shingles	40 F and rising	Six months	The product comes in granular and sand surfaces; surfaces do not affect performance. It is a contractor's preference which to use.
	WinterGuard-HT Waterproofing Shingle Underlayment	Smooth	Yes, up to 250 F	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	40 F and rising	Six months	For metal roof coverings
Dewitt Products Co.	Roof Shield 67 Ice & Water Underlayment	Granular	See Comments	Asphalt shingles, concrete tile, slate, metal	40 F and rising	60 days	Can be used under shingles, slate, tile or concrete
	All-N-One Ice & Water Starter Strip	Granular	No	Asphalt shingles, clay tile, concrete tile, slate, wood shakes/shingles	40 F or higher	60 days	The product is thicker than Roof Shield 67; it includes a shingle starter strip.
	Lite-N-Smooth Ice & Water Underlayment	Smooth	Yes	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	40 F	60 days	For use under metal; has a temperature rating up to 240 F
	High-Temp	Smooth	Yes, up to 240 F	Asphalt shingles, clay tile, metal, slate, wood shakes/shingles	40 F or higher	90 days	Designed to withstand periodic temperatures up to 240 F
Elk Corp. ³	IceGard™	See Comments	No	Asphalt shingles, slate, wood shakes/shingles	50 F and rising	30	This product comes in two surfaces; "MS" has a granular surface, and "PS" has a smooth surface.
	HT ShieldGard™	Smooth	Yes, up to 260 F	Asphalt shingles, clay tile, concrete tile, metal (see Comments)	50 F and rising	180 days	HT ShieldGard is a full-surface underlayment. For ice-dam protection under metal, GAF StormGuard® is recommended.
	ShieldGard	Smooth	No	Asphalt shingles, clay tile, concrete tile, slate, wood shakes/shingles	50 F and rising	30 days	ShieldGard is a full-surface underlayment. For ice-dam protection under metal, GAF StormGuard is recommended.
GAF Materials Corp. ³	Weather Watch®	Granular	No	Asphalt shingles	45 F and rising	60 days	
	StormGuard	Smooth	Yes	Asphalt shingles, metal (see Comments), slate, wood shakes/shingles	45 F and rising	60 days	Contact manufacturer for information regarding use under copper or zinc.
	UnderRoof/UnderRoof 2	Smooth	See Comments	Concrete tile	45 F and rising	Not provided	UnderRoof 2 is a new name for the product. It is designed specifically for use under tile.
The Garland® Co. Inc.	HPR™ Fire-Tite Base Sheet	See Comments	Yes	Metal	50 F and rising	90 days	Surface is described as fire-resistant with a smooth-sandy surface; product primarily is used under metal.
	HPR Aqua Shield	See Comments	Yes	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	50 F and rising	60 days	This is a new product; the surface is described as having a fine, smooth-sandy surface.
Henry Co. Inc.	Eaveguard® Self-Adhering Shingle Underlayment	Sand	No	Asphalt shingles, wood shakes/shingles	40 F and rising	Two weeks	
	Blueskin® PE200 HT Self-Adhered Roof Underlayment	Smooth	Yes	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	40 F and rising	Six weeks	Designed primarily for use under metal roof shingles or panels

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³Elk Corp. is now a subsidiary of GAF Materials Corp. The product lines of both companies are undergoing review to eliminate similar products.

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Henry (continued)	Blueskin RF 200 Self-Adhered Roof Underlayment	Smooth	No	Asphalt shingles, clay tile, concrete tile, slate, wood shakes/shingles	40 F and rising	Six weeks	Designed for use primarily under tile and natural or synthetic slate
IKO	ArmourGard	Sand	No	Asphalt shingles	40 F and rising	Not provided	
	GoldShield	Smooth	Not provided	Asphalt shingles	40 F and rising	Not provided	
	StormShield	Smooth	Not provided	Asphalt shingles	40 F and rising	Not provided	
Kirsch Building Products LLC	Sharkskin Ultra SA	Smooth	Yes, up to 200 F	Asphalt shingles, clay tile, concrete tile, metal, slate	20 F and rising (see Comments)	See Comments	12-month UV exposure rating; contact manufacturer for information regarding use under wood shakes or shingles
Malarkey Roofing Products	Arctic Seal	Sand	No	Asphalt shingles (see Comments)	40 F and rising	Not provided	Contact manufacturer for applications under metal.
MFM Building Products Corp.	Premium Wind and Water Seal	Smooth	Yes	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	50 F and rising	60 days	Designed for use under metal
	IB-3	Granular	No	Asphalt shingles, clay tile, concrete tile, slate, wood shakes/shingles	40 F and rising	60 days	
	IB-4	Granular	No	Asphalt shingles, clay tile, concrete tile, slate, wood shakes/shingles	40 F and rising	One year	Slightly thicker than IB-3; has self-adhering seldge
Owens Corning	WeatherLock® G Granulated Surface	Granular	No	Asphalt shingles, concrete tile, slate, wood shakes/shingles (see Comments)	40 F and rising	Owens Corning does not suggest a maximum exposure time; underlayments should be covered as soon as possible.	The primary difference between products is surfacing (granular versus smooth).
	WeatherLock Mat Faced	Smooth	No	Asphalt shingles, concrete tile, slate, wood shakes/shingles (see Comments)	40 F and rising		
	WeatherLock P Nonreinforced	Smooth	No	Asphalt shingles, concrete tile, slate, wood shakes/shingles (see Comments)	40 F and rising		The product is not reinforced, so the sheeting is more flexible.
	WeatherLock Metal High Temperature	Smooth	Yes	Concrete tile, metal (see Comments)	40 F and rising		Used under metal or where high temperatures may be encountered
	WeatherLock Cold Climate	Smooth	No	Asphalt shingles, concrete tile, slate, wood shakes/shingles (see Comments)	40 F and rising		Designed to be more flexible and easier to handle in lower temperatures
Polyglass® USA Inc.	Polystick™ IR-X	See Comments	No	Asphalt shingles, slate, wood shakes/shingles	40 F and rising	90 days	Available in granular or smooth
	Polystick Basik	Smooth (see Comments)	Yes, up to 260 F	Metal	40 F and rising	90 days	Surface is sticky.
	Polystick MU	Smooth (see Comments)	Yes, up to 260 F	Metal	40 F and rising	90 days	Has a felt surface with a smooth, sticky seldge

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Polyglass USA (continued)	Polystick TU	Smooth	No	Tile	40 F and rising	90 days	The product is designed specifically for use under tile; the use of granular or smooth surface is a contractor's preference.
	Polystick TU P	Granular	No	Tile	40 F and rising	36 months or as limited by authority having jurisdiction	
	Polystick TU Plus	Smooth	Yes, up to 260 F	Asphalt shingles, concrete tile, clay tile, slate, wood shakes/shingles (see Comments)	40 F and rising	120 days	Specifically designed for use under tile; can be used when tiles are adhesive-set or with other roofing materials
Protecto Wrap Co.	Rainproof 40	Smooth	Yes	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	40 F and rising	90 days	
	Ice & Water Guard	See Comments	No	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	Summer grade: 40 F Cold weather grade: between 20 F and 40 F	90 days	Sticky on both sides for adherence to roofing felt
TAMKO® Building Products Inc.	Moisture Guard Plus	Granular	No	Asphalt shingles, clay tile, concrete tile, slate	35 F and rising	90 days	Check with manufacturer regarding use under wood shakes or shingles; ice-dam protection membrane must be solidly adhered to decks
	TW Metal and Tile Underlayment	Smooth	Yes, up to 250 F (see Comments)	Asphalt shingles, clay tile, concrete tile, metal, slate	40 F and rising	90 days	Copper roofing is a special case; consult a design professional. Check with manufacturer regarding use under wood shakes or shingles. The ice-dam protection membrane must be solidly adhered to deck.
	TW Underlayment	Smooth	Yes, up to 245 F	Asphalt shingles, clay tile, concrete tile, metal, slate	40 F and rising	90 days	Specify "winter grade" if ambient temperatures are 65 F or lower. The product may not meet ASTM D1970 for nail sealability; check with manufacturer.
Tarco	LeakBarrier® MS 300	Granular	No	Asphalt shingles	40 F and rising	30 days	Designed for use under shingles; not durable enough for use under tile
	LeakBarrier SS 400	Smooth	No	Asphalt shingles, clay tile, concrete tile	40 F and rising	30 days	Under development, intended for use under tiles
	LeakBarrier PS200HT Ice and Water Armor	Smooth	Yes, up to 260 F	Asphalt shingles, clay tile, concrete tile, metal, slate	40 F and rising	90 days	Designed for use under metal; can also be used under tile or slate
W. R. Grace & Co.	Grace Basik®	Granular	No (see Comments)	Asphalt shingles, clay tile, concrete tile, slate, wood shakes/shingles	40 F and rising	30 days	If using the product in desert climates, attach it to wood substrates only. Do not use under copper, zinc or COR-TEN™ steel or in high-altitude climates.
	Grace Ice & Water Shield®	Smooth	See Comments	Asphalt shingles, clay tile, concrete tile, metal (see Comments), slate, wood shakes/shingles	40 F and rising	30 days	Do not use in desert climates; southwest U.S.; or under copper, zinc or COR-TEN in high-altitude climates
	Grace Select	Smooth	See Comments	Asphalt shingles, clay tile, concrete tile, metal (see Comments), slate, wood shakes/shingles	40 F and rising	30 days	Can be used under architectural metal roofs except under copper, zinc or COR-TEN in high altitude climates; do not use in desert climates in the southwest U.S.
	Grace Ultra	Smooth	Yes	Asphalt shingles, clay tile, concrete tile, metal, slate, wood shakes/shingles	40 F and rising	60 days	Can be used in all cases

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