



NEXGEN ADVANCED

Product Code(s): ADVRTU1, ADVRTU5, ADVVC5, ADVVC20, ADVVC55, ADVVC275

PRODUCT DESCRIPTION

NexGen is the most advanced wood protection system available on the market. Using proprietary technology developed in partnership in the United States and Canada, NexGen is an environmentally friendly line of wood protection products.

NexGen-coated materials (any wood substrate) are warranted for fire - the only warranty like it in the world, underwritten by no less than Lloyds of London. Lloyds also warrants these materials for the prevention of mould, rot, and insect infestation from all wood-boring insects, including termites (50 years for covered material, and an industry leading 30 years for exterior use, including siding/cladding, shakes and shingles, decking and fencing materials, and more).

Further, NexGen either comes in a clear coat, which cannot be seen, felt, or smelled, or it can be custom tinted to any colour. NexGen also works on any species of wood, and on any wood product (CLT's, Glulams, plywood, dimensional lumber, etc.).

There are no VOC's added to the wood, there is no off-gassing, and no leaching.

After the wood has been coated with a NexGen product, it can be painted or stained without any damage to the protection nor any effect on the warranty. In fact, NexGen works great as a primer for any water-based paints or stains.

NexGen also works as a long-lasting semi-permeable water barrier. By locking in the moisture content, NexGen prevents the kind of damage (checking, warping, cupping, etc.) typically found with untreated wood stored in a DC or at a jobsite. Data collected from builders around the world confirms up to 25% more usable wood per bundle, an incredible cost savings – and a huge saving to the environment.

Due to the moisture control, builders also don't have the issue with shrinkage after construction that typically occurs with untreated wood.

Unlike pressure treated lumber, any waste material is discarded with the untreated wood waste.

We have tested everything from the softest woods to the hardest, from Southern Yellow and Radiata Pine to Eucalyptus and Teak, and NexGen protects them all.



PRODUCT DETAILS

- ✓ UL Rated (Class A) fire protection with warranty (our unique global, third party fire warranty protects home owners PLUS manufacturers, distributors & builders);
- ✓ Warranty for mould, rot, & wood-boring insects, including all termites;
- ✓ Single coating application is simple to do (spray, flood or dip process);
- ✓ VERY inexpensive – as little as 2 cents / square foot of coated area;
- ✓ Eco-friendly, non-toxic & non-corrosive (no special fasteners required);
- ✓ Works on all wood products & species of wood;
- ✓ Can be any colour or perfectly clear;
- ✓ Works great as a prime coat;
- ✓ NexGen is also a water barrier which can result in up to 25% less waste per bundle (minimizes cupping, twisting, warping, etc as well as shrinkage after construction);
- ✓ Interior or exterior use;
- ✓ NOT an intumescent – no handle-with-care issues for coated material;
- ✓ Completed audited testing at the world's leading independent testing agencies (BM TRADA, Intertek, LSU, Bombardier & more – ask us for the reports!);
- ✓ Proud winner of the prestigious 2015 ADEX Platinum Award for Design Excellence!

PHYSICAL PROPERTIES

Appearance: Bluish-White liquid

Physical State: Liquid

Boiling Range: 210 F ~220F

Vapor Pressure: 24 mm Hg @ 680 F

Odor Threshold: N.D.

Solubility in Water: Soluble

Odor: Mild odor

pH: 7.5 - 8

Evaporation Rate: Slower than butyl acetate

Vapor Density: Heavier than air.

Viscosity: 20 – 35 mPas

Specific Gravity (water= 1): 1.03

Technical Data Sheet

NexGen Wood Protection Products



TEST RESULTS

Below is a sampling of test result data and is not complete as numerous additional and redundant tests have been omitted for brevity but are available upon request.

Compliance:	Testing Agency:	Date:	Substrate:	Test Purpose:	Results:
ASTM E84	Intertek	12 Feb 2008	Douglas Fir 2x4	Flame Spread	FS < 20 (Class A)
				Smoke Developed	SD = 15
ASTM E84	Intertek	24 June 2008	Hem/Fir 1x6	Flame Spread	FS < 25 (Class A)
				Smoke Developed	SD = 20
			Hem/Fir 2x4	Flame Spread	FS < 20 (Class A)
				Smoke Developed	SD = 125
			SYP 2x4	Flame Spread	FS < 25 (Class A)
				Smoke Developed	SD = 200
ASTM E84	Intertek	12 Feb 2008	Hem/Fir 2x4	Flame Spread	FS < 25 (Class A)
				Smoke Developed	SD = 70
ASTM E84	SGS	24 Aug 2007	Douglas Fir 2x4	Flame Spread	FS < 20 (Class A)
				Smoke Developed	SD = 50
ASTM E84	Intertek	29 Aug 2008	Red Cedar 2x4	Flame Spread	FS < 25 (Class A)
				Smoke Developed	SD = 50
ASTM E84	Intertek	13 Feb 2014	¾" Plywood	Flame Spread	FS < 25 (Class A)
				Smoke Developed	SD = 35
ULC S102	Intertek	18 Dec 2013	¾" Plywood	Flame Spread	FS < 20 (Class A)
				Smoke Developed	SD = 25
ASTM E1623	Western Fire Ctr	30 Jun 2015	½" OSB	Burn Through Test	> 19 Minutes
			¾" OSB	Burn Through Test	> 34 Minutes
ASTM E1623	Western Fire Ctr		½" OSB	Burn Through Test	> 95 Minutes *
			½" OSB	Burn Through Test	> 95 Minutes *

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LIMITATIONS

NexGen products are strictly for use on wood substrates only.

SAFETY

Read the Material Safety Data Sheets (MSDS) for all NexGen Products. NexGen has undergone third-party MSDS creation to ensure product claims of non-toxicity and eco-friendliness.

SHELF LIFE

Undiluted NexGen Concentrate has a shelf life of 24 months and must be blended once every six weeks to ensure stability.

Diluted NexGen products have a shelf life of 12 months but must be blended once every four weeks to ensure stability and efficacy.

NexGen Dry Additives have a shelf life of 60 months and must be kept dry and cool.

STORAGE

Concentrate and diluted material must be kept out of direct sunlight. Ambient temperature must be no less than 4 C and no more than 50 C. DO NOT ALLOW PRODUCT TO FREEZE.

NexGen Dry Additives must be kept indoors and must not get wet.

PACKAGING

Container Type

Associated Product Code

1 Gallon Pail, Ready-To-Use	ADVRTU1
5 Gallon Container, Ready-To-Use	ADVRTU5
5 Gallon Container, Concentrate	ADVC5
20 Gallon Mini-Drum, Concentrate	ADVC20
55 Gallon Drum, Concentrate	ADVC55
275 Gallon Drum, Concentrate	ADVC275

Technical Data Sheet

NexGen Wood Protection Products



ACCEPTABLE APPLICATION METHODS

NexGen products can be applied in the following manner:

Spray booth

Flood coater

Dip tank

Hand sprayer

Brush

Roller

Pressure treatment (See separate Technical Data Sheet for pressure treating with NexGen)

CURING TIMES

Application Method Temp Range (Celsius) / Time

Application Method	Temp Range (Celsius)	Time
Spray Booth	0 – 10 C	< 3 hours
Flood Coater	0 – 10 C	< 4 hours
Dip Tank	0 – 10 C	< 4 hours
Hand Sprayer	0 – 10 C	< 3 hours
Brush	0 – 10 C	< 3 hours
Roller	0 – 10 C	< 3 hours

DISCLAIMER

The information in this document is given to the best of NexGen's knowledge, based on laboratory testing and practical experience. Outside the product warranties, NexGen cannot guarantee anything but the quality of the product itself. NexGen reserves the right to alter all information without further notice.

Users of NexGen products must follow the procedures outlined in the NexGen quality control guidelines.