DOP-WS16001-E

Register 14499

#3030656

RR 26190

Wetsuit® 2-Part

Fluid Applied Membrane

Professional Use Only

DESCRIPTION

WetSuit® 2 Part is a patented VOC-Free, instant-set, water-based two-component cold spray applied, fully- adhered, auto-terminating bituminous high grade rubber membrane suitable for a variety of waterproofing, roofing, air/vapor barrier, and protective applications. WetSuit® 2 Part builds to any millage in a single pass application resulting in rapid application and a variety of vertical and horizontal uses

RECOMMENDED USE

WetSuit® is designed for exterior and interior vertical and horizontal waterproofing, roofing, and environmental barrier applications. Typical applications include:

Split slab and structural slab waterproofing	Plaza decks, balconies, roof decks
Sea walls, dams and retaining walls	Green roofs, blue roofs, terraces, and planters
Corrosion protection, wall restoration	Below grade foundations and walls
Impermeable air and vapor barriers	Ponds, fountains, pools, tanks, containment
Marine and industrial applications	New and retrofit roofing over Capsheet/APP, Single-Ply (TPO, PVC, EPDM), metal roofs, built-up roofs, plywood, spray foam, and many coatings

FEATURES AND BENEFITS

- Single pass application for any millage with uniform composition and no mud-cracking or pin-holing; 1,500 sqft/hour- 140 sqm/ hour with a 3-men crew spray rate achievable and wide variety of uses
- Versatile: proven in waterproofing, roofing, and air/vapor barrier applications, hydrostatic and dry, exposed and buried, interior and exterior, vertical and horizontal
- Durable: 2124% elongation and superb memory, highly resistant to puncture and impact, approved for foot traffic, excellent weatheringand UV resistance performance, withstand ponding water indefinitely, and is Class A Fire Rated and self-extinguishing
- Simple: High adhesion with the waterbased Wetsuit® primer over a wide variety of substrates eliminates laborious prep; the system is easy to clean, and components mix externally

Neptune Coatings Corporation.
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TECHNICAL DATA SHEET
WETSUIT® 2-Part
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- True waterproofing performance.
- Accelerated spray is 80% cured in 3 Seconds—immediately tack free
- Environmentally friendly, low-impact install; LEED eligible
- Simple prep work. Require fabric reinforcement only on a gap, transitions, and joints, no torches or melting pots

CERTIFICATIONS

FM APPROVED	FM Approval Class 1 roofing - FM 4470	Certificate # 3030656
	ASTM E108	Class A on 2 in 12 Slope
	Wind uplift	Class 1-990 on Concrete
		Class 1-420 on Mod Bitumen
	Hail Damage	Class Severe Hail (SH)
	Foot Traffic.	Passed
	Leakage susceptibility	Passed
	Florida Building Code compliance - 2014	Registration # 14499.1
	Los Angeles Research Report	Report RR 26190
	CE Mark - HEN 15814	Notified Body 1119 - DOP-WS16001-E
	Reaction to Fire	Class E
	Crack bridging Ability	Class CB2
	Resistance to rain	Class R3
	Water resistance	Passed
	Flexibility at low temperature	Passed
	Dimensional stability at high temperature	Passed
	Reduction of layer thickness whenfully dried	Passed
	Water tightness	Class W2B
	Resistance to compression	Class C2B
Fire classes	EN 13501-5	Class BroofT1 Non combustible susbtrate - Pitch <20°
		Class BroofT2 All susbtrate - All Pitch
		Class BroofT3 Non combustible susbtrate - Pitch < 10°
		Class DroofT4 All susbtrate - Flat roofs
	EN 13501-1	Euroclass E susbtrate Euroclass A2-s1,d0
	ASTM E108	Class A on a slope of 2 in 12

PACKAGING / SHIPPING INFORMATION / STORAGE / TEMPERATURES

Container size	Shipping Class	Reference
55 Gallon drum (208.2 liters)	Class 55	17-WS-55

Mix periodically during storage (1x/Month)
One (1) WetSuit® 2-Part kit includes 50 gallon drum of coating and (1) bag of accelerator.
Store in a cool dry area between 40°F/5ºC-90°F/32°C, Protect from freezing.
Ensure that during application, the ambient temperature and the substrate temperature are at all time above 40°F/5ºC (Minimum Film Forming Temperature)

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PROPERTIES

Property	Test Method	Result
Color		Brown to Black
Volatile Organic Compounds		0%
Shelf Life		18 months
Dry weight		60 mils : 6oz/ft^2
Ignition / Flash temperature	ASTM D92	960ºF / 516ºC
Elongation / Elongation after 2000 Hrs weathering / Elongation at freezing	ASTM D412	2124% / 1602% / > 550%
Tensile Strength / tensile strength after 2000 Hrs Weathering	ASTM D412	363.2 Psi / 525 Psi
Cold temperature pliability	ASTM D2136-02	Passed at -30ºF
Water vapor Transmission (thickness 80 mils)	ASTM F1249-06	243 MNsg^{-1} / 0.072 perm
Puncture resistance (Blunt / Wedge)	ASTM D5635	80 J.in^{-1} / 21 J.in^{-1}
Adhesion to concrete (before and after 2000 hrs weathering)	AS/NZ 1580.408.5	1.52MPa-221Psi / 1.92MPa-279Psi

Recommended Minimum Thickness per Application

Application	Dry Thickness
Air barrier	40 mil / 1 mm
Roofing	60 mil / 1.5 mm
Vertical waterproofing	80 mil / 2 mm
Horizontal Waterproofing	100 mil / 2.5 mm

Please, refer to specific coverage document.

CURING TIME

WetSuit® Products will cure at different rates depending upon the Temperature, Humidity, Thickness Applied, and Substrate that is being applied onto. While Wetsuit 2 Part is an "Instant Set" and is 80% cured in 3 seconds, the actual full cure is indicated in the table. This cure schedule is based upon films cast at 60 mils DFT, at 50% Relative Humidity, and 77 degrees Farenheit.

As the full curing time is highly dependent of the atmospheric condition and the ventilation on the surface of the membrane, verify the curing state of the membrane with a moisture meter before applying any load.

The membrane is considered as fully cured when the moisture meter indicate a measure below 6%.

Curing stage	Duration
Rain resistance	2-3 seconds
Recoat	24 hours
Ponding / flood test	7 days
Limited traffic	24 hours
Fully cure / Return to full service	14 days

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SURFACE PREPARATION AND APPLICATION

WetSuit® should not be applied to wet surfaces or surfaces with latent moisture. Substrate temperature must be above 40°F/5°C, product must not be allowed to freeze during storage and until final cure. WetSuit® 2-Part is applied using Neptune Coatings patented WetSuit® Spray System. Spray System Technical Data Sheet for more information. Surface should be clean and dry with no oils, loose debris, laitance, organic matter or other interfering matter. See Neptune Coatings "Surface Preparation Quick Guide" for detailed substrate guidance, full application instructions in Guide Specifications.
Neptune Coatings strongly advise to apply a layer of Wetsuit® PrimeMate on any substrate to ensure optimum adhesion before to apply Wetsuit® 2-Part.
Wetsuit® 2-Part can be applied on substrates with a temperature above 5ºC / 41ºF. When the substrate temperature is above 80ºc/176ºF, carefully verify the adhesion of the formed membrane.

TOP COATING AND SURFACE MODIFICATION

For a colored or reflective topcoat, use Neptune Coatings Reflex or approved equal. Contact manufacturer for approved coatings. For a granulated or bead finish, after the 2-Part membrane has been allowed to cure completely apply a 30 wet mil coat of WetSuit® 1-Part (single component) and broadcast approved bead or granule into it. Time to cure completely will depends on temperature and humidity conditions.

RE-APPLICATION

WetSuit® is self adhering, and does not require scarification. WetSuit® 1-Part or Trowel adhere directly to 2-Part. If a topcoat has been applied, contact Manufacturer.

CLEAN UP

Requires Pine-Sol (or equivalent) and water in a 5:1 mixture for flushing the equipment after the job. Equipment requires flushing if down time is greater than 72 hours.

SAFE PRACTICES

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use and handling. Information sources include but are not limited to SDS and product labels. More resources are available by contacting Neptune Coatings directly.
A painter's nose/mouth mask and goggles are recommended while spraying. Gloves are recommended to avoid minor skin irritation. Refer to SDS for complete safety information. We always recommend adherence to OSHA fall safety guidelines and best practices.

MINIMUM EQUIPMENT

Always use the specific Spraying system supplied by Neptune Coatings.

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