

Wetsuit 2 Part System

Bituminous Rubber Membrane

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 thickness 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. Spray application using specific WetSuit® spraying system. 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 & 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 weathering performance, withstands ponding water indefinitely and is Class A Fire Rated and self-extinguishing
- Simple: High adhesion with the water-based Wetsuit® primer over a wide variety of substrates eliminates laborious prep; system is easy to clean and components mix externally
- 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 gap, transitions and joints, no torches or melting pots

COVERAGE

Application	Dry Thickness	m ² /Gal	L/m ²
Air barrier	40 mil / 1 mm	2.3	1.64
Roofing	60 mil / 1.5 mm	1.5	2.46
Vertical waterproofing	80 mil / 2 mm	1.1	3.28
Horizontal Waterproofing	100 mil / 2.5 mm	0.9	4.10

For a complete specification, please consult the polymer Group technical department.

PACKAGING

WetSuit® 2 Part supplied in 55 Gallon drum (208.2 litres)

APPROVALS:

FM Approval Class 1 roofing – FM 4470 ASTM E108 Wind uplift	Certificate # 3030656 Class A on 2 in 12 Slope Class 1-990 on Concrete Class 1-420 on Mod Bitumen Class Severe Hail (SH) Passed Passed
Hail Damage Foot Traffic. Leakage susceptibility	Passed Passed
Florida Building Code compliance - 2014	Registration # 14499.1
CE Mark	Notified Body 1119 - DOP- WS16001-E Class E Class CB2 Class R3 Passed Passed Passed
Reaction to Fire Crack bridging Ability Resistance to rain Water resistance Flexibility at low temperature Dimensional stability at high temperature Reduction of layer thickness when fully dried Water tightness Resistance to compression	Passed Class W2B Class C2B
Fire Classes EN 13501-5	Class BroofT1 Non-combustible substrate - Pitch <20° Class BroofT2 All substrate - All Pitch Class BroofT3 Non-combustible substrate - Pitch < 10° Class BroofT4 All substrate - Flat roofs Euroclass E substrate Euroclass A2-s1,d0 Class A on a slope of 2 in 12
EN 13501-1	
ASTM E108	



Register 14499

PROPERTIES

Property	Test Method	Result
Color		Brown to Black
Volatile Organic Compounds		0%
Ignition / Flash temperature	ASTM D92	516°C
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 -30°F
Water vapor Transmission @ 80 mils DFT	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 Initial After 2000 hrs weathering	NZS 1580.408.5	1.52MPa (221Psi) 1.92MPa (279Psi)



APPLICATION GUIDELINES:

SURFACE PREPARATION AND APPLICATION

WetSuit® should not be applied to wet surfaces or surfaces with latent moisture. Substrate temperature must be above 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. Temperature range for application: 10C-38°C. See Neptune Coatings "Surface Preparation Quick Guide" for detailed substrate guidance, full application instructions in Guide Specifications.

TOP COATING AND SURFACE MODIFICATION

For a colored or reflective topcoat, use Neptune Coatings Reflex or approved equal. For a granulated or non-slip 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, remove top coat.

SYSTEM DESIGN:

Component	Product	Description
Primer	WetSuit® PrimeMate	Water based primer
Joints	WetSuit® Undercover + Invisilink tape WetSuit® 1 Part + Invisilink tape	Med viscosity striping material used with reinforcing tape Airless sprayable striping material used with reinforcing tape
Detailing	WetSuit® Fiber Trowel	Chopped fibreglass reinforced membrane for penetrations etc
Membrane	WetSuit® 2 Part	Cold spray applied instant set membrane
Top Coat *	Reflex Base Coat Reflex Top Coat	Blocking primer coat High performance top coat

*other top coats may be suitable. Please refer to the polymer Group technical department.

System Products:	Pack Size
WetSuit® PrimeMate primer	5 US gal pail
WetSuit® Undercover	5 US gal pail
WetSuit® 1 Part	5 US gal pail
Invisilink Seam Fabric reinforcing tape various widths	
100mm & 150mm	91m ² roll
1000mm	99m ² roll
WetSuit® 2 Part	55 US gal drum
Reflex Base Coat	5 US gal pail
Reflex Top Coat	5 US gal pail

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.

HEALTH & SAFETY

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 Polymer Group directly.

This product is not regulated by DOT, IMO or IATA.

Minimum PPE – organic vapour cannister respirator and goggles while spraying. Gloves, overalls and boots are recommended to avoid minor skin irritation. Refer to SDS for complete safety information.

Causes Skin irritation
Cause eye irritation
May cause respiratory irritation

STORAGE & SHELF LIFE

Mix periodically during storage (1x/Month)

(1) WetSuit® 2-Part kit includes 50 gallon drum of coating and (1) bag of accelerator.

Store in a cool dry area between 5°C-32°C, Protect from freezing.

This product has a shelf life of 12 months from date of manufacture, stored away from sunlight at 25 °C or less in original un-opened container.

WetSuit® products are manufactured by:
Neptune Coatings Corporation.
4260 Wagon Trail Avenue, Las Vegas, NV 89118, USA.

Rev 0 Oct2022



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