

Submittal Package



W. R. MEADOWS®



A Family Company Since 1926

QUALITY...SERVICE...INTEGRITY

800-342-5976

www.wrmeadows.com



DATA SHEET NO. 4726-000

**POURTHANE® NS
Non-Sag Joint Sealant**

DESCRIPTION

POURTHANE NS is an elastic, low-modulus, one-component, moisture-curing, non-sag, polyurethane sealant. It maintains flexibility and waterproofing joint sealing with high bond strength and provides outstanding durability in the civil and industrial construction markets. The product requires no mixing and typically requires no priming to bond to many materials, including concrete and masonry.

USES

POURTHANE NS has very good adhesion to most construction materials. It is particularly recommended for expansion joints between precast concrete panels and seams on wooden, aluminum, and PVC joinery. POURTHANE NS is highly recommended for bonding concrete and baked clay roof tiles.

FEATURES/BENEFITS

- Ready to use and easy to gun and tool/No mixing and speeds application.
- Low VOC content.
- +/- 35% joint movement capability/Maintains flexibility in moving joints.
- No primer required for most construction materials/Cost reduction.
- Maintains excellent weather resistance/Gives long lasting joint seal.
- Delivers a practical service temperature range/Can be used in all climates.
- Packaged in cartridges, sausages, and in bulk/Jobsite waste is reduced.
- Superior bonding/Long lasting baked clay roof tile application.

PACKAGING

300 mL (10.1 Oz.) Cartridges (24/Carton)
592 mL (20 Oz.) Sausages (20/Carton)
18.9 L (5 Gal.) Pails
208.2 L (55 Gal.) Drums

AVAILABLE COLORS

Limestone, Stone Gray, Tan, White, Black, Bronze

COVERAGE

This chart shows the approximate number of lineal meters that can be sealed per litre. One litre is approximately three cartridges.

Joint Depth	Joint Width						
	6.4 mm (1/4" mm)	9.5 mm (3/8")	12.7 mm (1/2")	15.9 mm (5/8" mm)	19.1 mm (3/4")	22.2 mm (7/8")	25.4 mm (1")
6.4 mm (1/4")	93.9	62.5	46.9	37.2			
9.5 mm (3/8")				25	20.7	17.7	15.5
12.7 mm (1/2")					15.5	13.4	11.6

When estimating, figure 3 cartridges/L (11 cartridges/gal)..

Cubic cm/gal. – 1000 cm³ (231 in.³)

Cubic cm/cartridge – 344.13 cm³ (21 in.³)

For triangular cross-section joints:

6.35 mm (1/4") each side – 49.6 m/L (616 linear ft./gal.)

12.7 mm (1/2") each side – 12.4 m/L (154 linear ft./gal.)

19.1 mm (3/4") each side – 5.5 m/L (68 linear ft./gal.)

BEST USED BY

When stored indoors and in original, unopened containers at temperatures between 5 - 40° C (41 - 104° F), shelf life is a minimum of one year from date of manufacture, except for pails and drums, which have a shelf life of six months.

Continued over ...

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SPECIFICATIONS

- ASTM C 920-11, Type S, Grade NS, Class 35, Use T₁, T₂, NT, O, M, G
- Federal Specification TT-S-00230C, Type II, Class A
- Canadian Specification CAN/CGSB-19.13-M87, Classification MCG-2-25-A-N, No. 81026
- ISO 11600-F-25LM

TECHNICAL DATA

Consistency	Thixotropic
Specific Gravity @ 20° C (68° F)	1.27
Paint Compatibility	Water-Based: Compatible Solvent-Based: Check Compatibility
Skin Formation Time 23° C (74° F), 50% RH	60 – 90 min.
Shore A Hardness	25 - 30
Sagging (ISO 7390)	None
Modulus at 100% Elongation (ISO 8339), MPa	0.3
Elongation at Break, %	800
Application Temperature	5° - 40° C (41° - 104° F)
Service Temperature	-40° - 80° C (-40° - 176° F)
Substrate Staining	None
Resistance to Weathering	Excellent
UV Resistance	Good
Resistance to Diluted Acids and Bases	Medium
Salt Water Resistance	Excellent
VOC Content	102 g/L

APPLICATION

Surface Preparation ... Substrate must be clean, dry, and free of dust and grease. Be sure interfaces are free of curing compounds and/or saw residue.

Application Method ... POURTHANE NS can be applied with a manual or pneumatic caulking gun. Use typical joint sealing practices and proper joint design of 2:1 width to depth ratio when applying. Horizontal joints require a minimum of 6.4 mm (1/4") depth and maximum 12.7 mm (1/2") depth. KOOL-ROD™ from W. R. MEADOWS may be used as a joint backing material to control sealant depth and provide joint configuration. After application, the product can be smoothed with a damp knife.

Cleanup ... Application tools can be cleaned with toluene or xylene before curing. Afterwards, mechanical cleaning will be required.

PRECAUTIONS

Check for compatibility to materials and working techniques not outlined above. POURTHANE NS must be fully cured prior to installation of other materials over the product. Do not apply on wet substrates. Do not apply at temperatures outside application temperature range. (See physical properties chart.) For joints subject to water immersion, use DECK-O-SEAL® 125 and/or DECK-O-SEAL GUN GRADE with P/G PRIMER from W. R. MEADOWS.

MASTERFORMAT NUMBER AND TITLE

07 92 13 - Elastomeric Joint Sealants
32 13 73 - Concrete Paving Joint Sealants

LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 4.1: Low Emitting Materials - Adhesives and Sealants
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

For most current data sheet, further LEED information, and SDS, visit www.wrmeadows.com.

2015-09-14



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WARRANTY: W. R. Meadows of Canada warrants that, at the time and place we make shipment, our materials will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OF TRADE OR OTHERWISE. As the exclusive remedy for breach of this Warranty, we will replace defective materials, provided, however, that the buyer examine the materials when received and promptly notify us in writing of any defect before the materials are used or incorporated into a structure. Three (3) months after W. R. Meadows of Canada has shipped the materials, all our Warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates and no action for breach of any such duties may thereafter be commenced. W. R. Meadows of Canada shall in no event be liable for consequential damages. Unless otherwise agreed to in writing, no warranty is made with respect to materials not manufactured by W. R. Meadows of Canada. We cannot warrant or in any way guarantee any particular method of use or application or the performance of materials under any particular condition. Neither this Warranty nor our liability may be extended or amended by our salesmen, distributors or representatives, or by our distributor's representatives, or by any sales information or drawings.



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product:	POURTHANE® NS	Part Number:	4541-000
Manufacturer:	W. R. MEADOWS OF CANADA	Address:	70 Hannant Court Milton, Ontario Canada L9T 5C1
Telephone:	(905) 878-4122	In case of emergency, dial (800) 424-9300 (CHEMTREC)	
Revision Date:	1/25/2018		
Product Use:	Polyurethane Adhesive		

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

HMIS	HAZARD STATEMENTS								
<table border="0"> <tr><td> Health </td><td> 1 </td></tr> <tr><td> Flammability </td><td> 1 </td></tr> <tr><td> Reactivity </td><td> 1 </td></tr> <tr><td> Personal Protection </td><td> </td></tr> </table>	Health	1	Flammability	1	Reactivity	1	Personal Protection		<p>WARNING! Causes skin, eye, respiratory irritation. May cause an allergic skin/respiratory reaction. Harmful if inhaled. May cause damage to liver, kidneys, lungs, and blood.</p> <p>PRECAUTIONARY STATEMENTS Avoid direct contact/breathing vapors. Wear appropriate personal protective equipment. Use only in well-ventilated areas.</p>
Health	1								
Flammability	1								
Reactivity	1								
Personal Protection									



SECTION 3: HAZARDS COMPONENTS

Chemical Name:	CAS Number	% by Weight	SARA 313	Vapor Pressure (mm Hg@20°C)	LEL (@25°C)
1. Diphenylmethane Diisocyanate	101-68-8	0-1	Yes	N/A	N/A
2. Xylene	1330-20-7	2-6	Yes	9 @20°	1

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313." *N/A: Not Applicable*

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water for fifteen (15) minutes. Seek prompt medical attention. Materials containing isocyanate may react with moisture of the eye forming a thick material that may be difficult to wash from the eye.

SKIN CONTACT: Remove contaminated clothing. Wash affected area with mild soap and water. If symptoms persist, seek medical attention.

INHALATION: If respiratory symptoms develop, move victim from exposure source and into fresh air. Treat symptomatically. If symptoms persist, seek medical attention.

INGESTION: No adverse effects are anticipated by this route of exposure incidental to proper industrial handling.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND CHRONIC: See Section Eleven for Symptoms/Effects.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: >175°C

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, or foam. If water is used, it should be applied in large quantity. The reaction between water and hot isocyanate may be vigorous.

CHEMICAL/COMBUSTION HAZARDS: Potentially cyanide containing compounds, carbon monoxide, carbon dioxide, and incomplete combustion products.

PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Do not reseal contaminated containers as pressure build up may rupture them. Responders should utilize full bunker gear and a self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Evacuate personnel as necessary. Absorb with sawdust or other absorbent and shovel into open top containers. Do not make pressure tight. Transport to a well ventilated area (outdoors) and treat with a neutralizing solution consisting of water and a 3-8% ammonium hydroxide solution or a 5-10% sodium carbonate solution. Add about ten parts of neutralizer per part of spill while mixing. Allow to stand forty eight hours allowing evolved carbon dioxide gas to escape.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact. Avoid sources of moisture contamination.

SAFE STORAGE: Store in cool, dry location. Keep containers closed when not in use. Protect from freezing. Store at temperatures between 10 to 24°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name:	OSHA			SKIN	TWA	ACGIH		SKIN
	PEL	PEL/CEILING	PEL/STEL			TLV/CEILING	TLV/STEL	
1. Diphenylmethane Diisocyanate	0.02 ppm	N/E	N/E	No	0.005 ppm	N/E	N/E	No
2. Xylene	100 ppm	N/E	150 ppm	N/E	100 ppm	N/E	150 ppm	No

N/E: Not Established

ENGINEERING CONTROLS: Not required under normal use conditions

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: Not Established	VAPOR DENSITY: Not Determined	% VOLATILE BY VOLUME: Not Determined
EVAPORATION RATE: <1 (ether = 1)	pH LEVEL: Not Applicable	% VOLATILE BY WEIGHT: Not Determined
WEIGHT PER GALLON: 9.75	PRODUCT APPEARANCE: Heavy paste	VOC CONTENT: 102 g/L
ODOR: Mild Organic	ODOR THRESHOLD: N/D	MELTING/FREEZING POINT: N/D
FLASH POINT: See Section 5	FLAMMABILITY: N/D	UEL/LEL: N/D
VAPOR PRESSURE: N/D	RELATIVE DENSITY: N/D	SOLUBILITY: N/D
PARTITION COEFFICIENT: N/D	AUTOIGNITION TEMPERATURE: N/D	DECOMPOSITION TEMPERATURE: N/D
VISCOSITY: N/D		<i>N/D: Not Determined</i>

SECTION 10: STABILITY/REACTIVITY

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS AND MATERIALS TO AVOID: Oxidizing agents, strong acids/alkalies, alcohols, amines, metal compounds, and surface active materials. Avoid water as it reacts to form heat, carbon dioxide, and insoluble urea.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, incomplete combustion products, and potentially cyanide containing compounds

SECTION 11: TOXICOLOGICAL INFORMATION

EYE CONTACT: Direct contact or exposure to vapors may cause mild to moderate eye irritation. Corneal injury is unlikely.

SKIN CONTACT: Direct contact may result in mild to moderate irritation. Prolonged contact may result in skin irritation. Sensitization reactions are possible.

INHALATION: Exposure may produce irritation to the nose, throat, respiratory tract, and mucous membranes. After repeated overexposures or exposure to a single large dose, certain individuals may develop isocyanate sensitization (chemical asthma) that will cause them to react to a later exposure to isocyanate at levels below the TLV. Isocyanate sensitization may be temporary or permanent. Once sensitized, an individual may experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in severe cases, for several years. Once an individual is diagnosed as being sensitized to isocyanate, no further exposure can be permitted. Chronic overexposure to isocyanate has also been reported to cause lung damage (including decreased lung function) which may be permanent. Acute overexposure to isocyanate may also lead to bronchitis, bronchial spasm, and pulmonary edema. These effects are usually reversible. Chemical or hypersensitive pneumonitis with flu-like symptoms have also been reported. These symptoms can be delayed for up to several hours.

INGESTION: Single dose oral toxicity is low. Ingestion may cause irritation of the gastrointestinal tract. No hazards are anticipated from ingestion incidental to industrial exposure.

SIGNS AND SYMPTOMS: Symptoms of eye irritation include pain, tearing, redness, and swelling. Symptoms of skin irritation include reddening, swelling, rash, and redness. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function. Symptoms of gastrointestinal irritation include sore throat, abdominal pain, nausea, vomiting, and diarrhea. Lung sensitization results in asthma-like symptoms; chest tightness, shortness of breath, wheezing, and coughing. These symptoms may be immediate or delayed for up to several hours.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, eye, and respiratory disorders may be aggravated by product exposure. Persons with asthmatic-type conditions, chronic bronchitis, or other chronic respiratory diseases, recurrent skin eczema, sensitization, or allergies should be excluded from working with isocyanates.

OTHER HEALTH EFFECTS: None recognized.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/E	DEGRADABILITY: N/E	BIOACCUMULATIVE POTENTIAL: N/E
SOIL MOBILITY: N/E	OTHER ADVERSE EFFECTS: N/E	

SECTION 13: WASTE DISPOSAL INFORMATION

WASTE DISPOSAL INFORMATION: Unreacted material requires disposal via a hazardous waste facility. Completely solid (polymerized) product would be classified as a non-hazardous waste.

SECTION 14: TRANSPORTATION INFORMATION

HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by domestic ground shipments.

UN NUMBER: None. **HAZARD CLASS:** None. **PACKING GROUP:** None.

UN PROPER SHIPPING NAME: None.

ENVIRONMENTAL HAZARDS: None recognized.

BULK TRANSPORTATION INFORMATION: Not applicable. Product is not shipped in bulk.

SPECIAL PRECAUTIONS: None.

SECTION 15: REGULATORY INFORMATION

OTHER REGULATORY CONSIDERATIONS: None.

SECTION 16: OTHER INFORMATION

PREPARATION DATE: 1/25/2018
PREPARED BY: Dave Carey

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