CONSTRUCTION MATERIALS

TECHNOLOGIES

Caution:
The installation used for these product approvals are in accordance with the installation specifications listed at www.sealedstuccosystem.com and the installers of this system must be a Sealed Stucco Technician listed as current on the website.

WATER RESISTANCE EVALUATION OF THE KONING EXTERIOR FINISH ASSEMBLY IN ACCORDANCE WITH ASTM E 331 AND SECTION R703.1.1, EXCEPTION 2 OF THE FLORIDA BUILDING CODE, 5TH EDITION (2014), RESIDENTIAL

(PROJECT NO. KCCI-002-02-02)

For

KONING CONSTRUCTION CONSULTANTS
8301 JOLIET STREET
HUDSON, FL 34667

APRIL 4, 2016

Purpose: Evaluate the Koning Exterior Finish Assembly for water resistance in accordance with **Section R703.1.1, Exception 2 of Florida Building Code, 5th Edition (2014), Residential** and **ASTM E 331: *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*.** In addition this testing conforms with Section 1403.2, Exception 2 of the Florida Building Code, 5th Edition (2014), Building, and 2012 and 2015 International Building Code (IBC).

Test Methods: Testing was conducted in accordance with ASTM E 331-00(2009): *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*. Testing was modified in accordance with Section R703.1.1 as follows:

Koning Exterior Finish Assembly was tested in 4 feet by 8 feet exterior wall format containing at least one opening, one control joint, one wall/eave interface and one wall sill. The wall assembly was tested at a minimum differential pressure of 6.24 pounds per square foot (299 Pa) for a minimum of 2 hours.

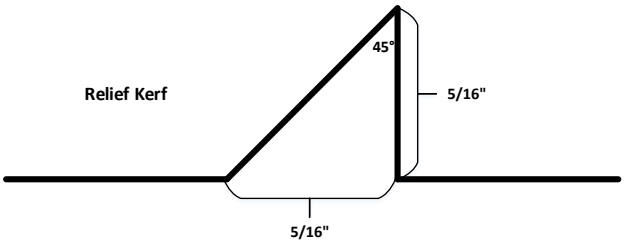
The "passing" criteria for this test is that the exterior wall envelope design shall be considered to resist wind-driven rain where the results of testing indicate that water did not penetrate control joints in the exterior wall envelope, joints at the perimeter of openings penetration or intersections of terminations with dissimilar materials.

Sampling: All products applied to the exterior sheathing were provided by Koning Construction Consultants. Below is an itemized list of products that are used in the Koning Exterior Finish Assembly.

Product Identification	Manufacturer
Tyvek® HomeWrap	DuPont
Tyvek® Taoe	DuPont
Vinyl Casing Bead	Not provided
Vinyl Control Joint	Not provided
Structalath Twin Trac	Structa Wire Corporation
Florida Super Stucco	Argos Cement LLC
MasterSeal NP 150	BASF Corp.
Loxon XP™ Masonry Coating	Sherwin-Williams

Specimen: A 4-ft x 8-ft mock-up was constructed from No.2 2x6 dimensional lumber and sheathed with 7/16" OSB. The OSB sheathing was installed with two (2) offset vertical joints and one horizontal joint and was fastened to the framing with #8 x 2 wood screws spaced 6" o.c. along the edges and intermediate supports. A window cut-out, a galvanized square duct, a Schedule 40 PVC pipe, a square electrical junction box, and an octagon electrical junction box were incorporated into the specimen design. DuPont Tyvek® HomeWrap was placed over the OSB using 1-1/2" plastic cap nails spaced 24" o.c. The Tyvek was cut at the window, and flashed into the opening and sealed at the corners with DuPont Tyvek® Tape. The Tyvek was cut to fit around the other penetrations in the assembly. 5/8" ground x 1-3/4" flange, vinyl casing beads were located around perimeter of

the specimen and window and attached 24” o.c with #8 x 1” PH wood screws. Structalath Twin Trac was secured through to the sheathing with #8 x 1” PH screws spaced 12” o.c. horizontally and 5” o.c vertically in a staggered pattern. A 1/2” x 4” vinyl control joint was placed vertically in the center of the specimen and attached 24” o.c with #8 x 1” PH wood screws. The stucco finish was prepared by mixing Florida Super Stucco and sand at a 1:3 to 1:4 ratio and applied flush with the casing bead and control joint. A relief kerf, as shows below, was cut into the wet stucco at the casing bead, control joint, and all penetrations. MasterSeal NP 150 was applied in the kerf to seal to the trim and penetrations. After a 7 day cure, Sherwin-Williams Loxon XP™ Masonry Coating was applied at 14 mils over the stucco finish.



Results: The specimen was tested December 23, 2015. Results of testing are shows below.

Table 1. Results for ASTM E 331 (Modified per Section R703.1.1, Exception 2)

Property	Test Method	Result	Requirement
Water-Penetration *[Pass/Fail]* 4' x 8' wall assembly; ΔP=6.24psf for 2h; 3.4 L/m^2·min water spray	ASTM E 331	Pass	Water shall not penetrate control joints in the exterior wall envelope, joints at the perimeter of openings penetration or intersections of terminations with dissimilar materials.

PRI Construction Materials Technologies LLC 6412 Badger Drive Tampa, FL 33610 Tel: 813-621-5777 Fax: 813-621-5840 e-mail: materialstesting@pricmt.com WebSite: http://www.pricmt.com

Statement of Compliance:

The water resistance evaluation of Koning Exterior Finish Assembly indicates compliance with **Section R703.1.1, Exception 2 of Florida Building Code, 5th Edition (2014), Residential,** as well as Section 1403.2, Exception 2 of the Florida Building Code, 5th Edition (2014), Building, and 2012 and 2015 International Building Code (IBC).

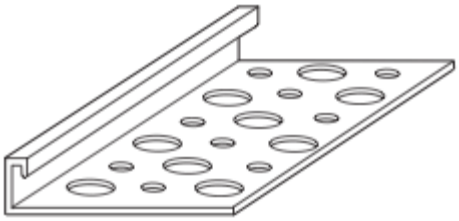
Signed: _____
Zachary Priest, P.E.
Director

Report Issue History:

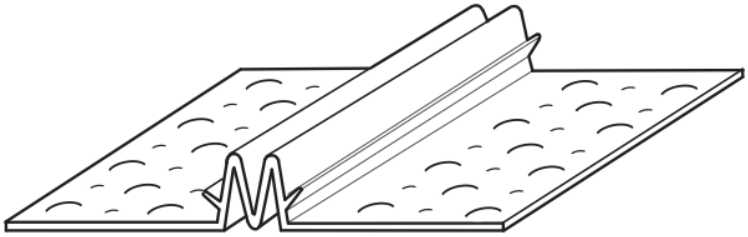
Issue #	Date	Pages	Revision Description (if applicable)
Original	04/04/2016	15	NA

APPENDIX FOLLOWS

PRI Construction Materials Technologies LLC 6412 Badger Drive Tampa, FL 33610 Tel: 813-621-5777 Fax: 813-621-5840 e-mail: materialstesting@pricmt.com WebSite: http://www.pricmt.com



Vinyl Casing Bead



Vinyl Control Joint

PRI Construction Materials Technologies LLC 6412 Badger Drive Tampa, FL 33610 Tel: 813-621-5777 Fax: 813-621-5840 e-mail: materialstesting@pricmt.com WebSite: http://www.pricmt.com

INTRODUCING

STRUCTALATH®

1 1/2" SF CR *TWIN TRAC*

Another natural innovation from Structa Wire Corp.
We've made our product even better!

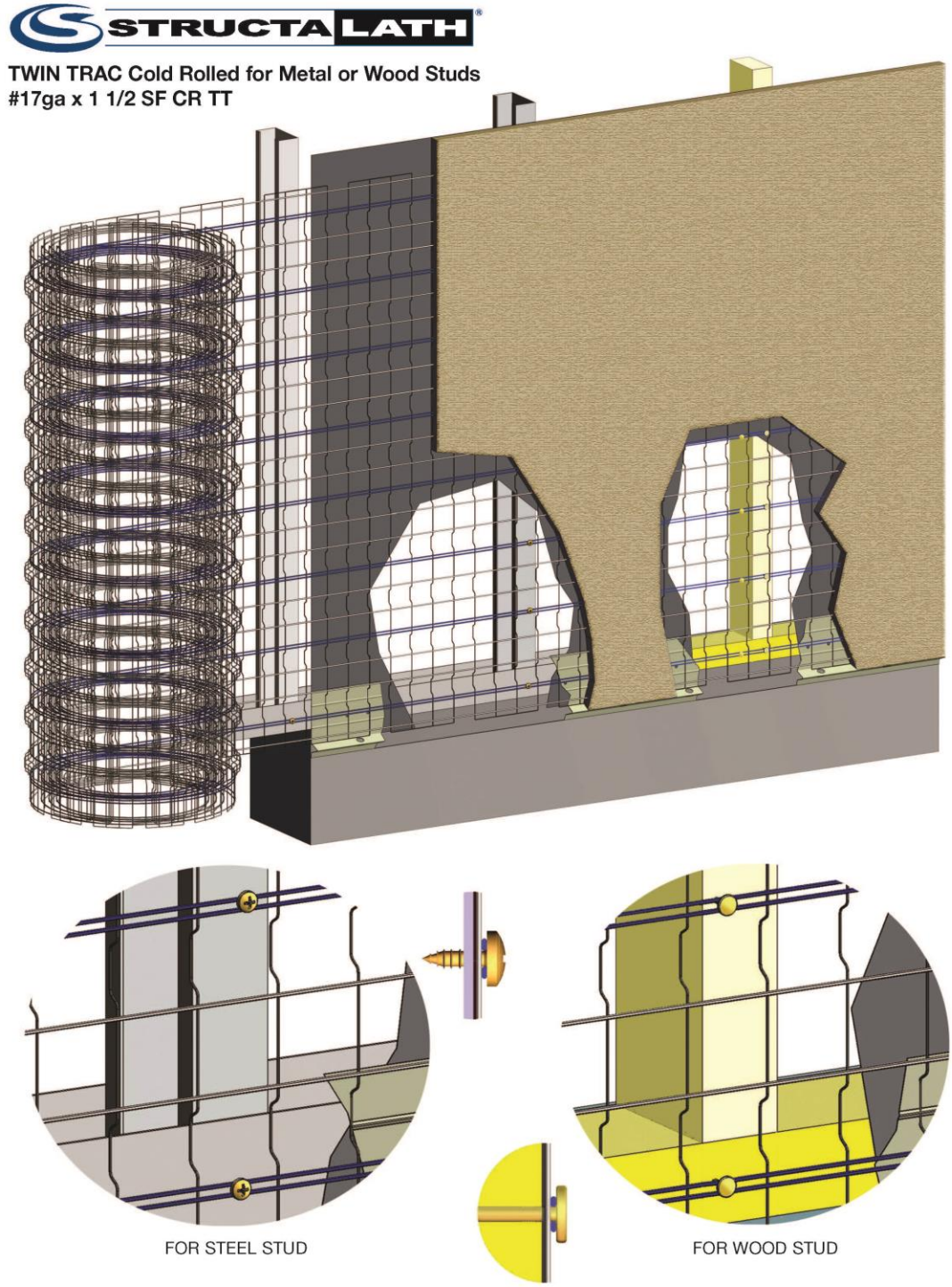
- **Twin Trac** simplifies the attachment of wire lath to wood and steel studs for residential and commercial construction.
- **Twin Trac** provides convenient options for attachment of the lath that exceed all building code requirements.

Features

- **Twin Trac** in rolls (compared to sheet) provides the most economical and cost effective metal base (wire lath) for 3 coat stucco on commerical buildings.
- **Twin Trac** creates a series of (8)-3/16" spacing bands which act as a continuous washer. This allows the easy penetration of self-tapping screws or hand nails, providing a wide flat base for automatic staples.
- **Twin Trac** flat wires provide a pressure seal at the fastener penetration point that serves to inhibit water leakage.
- **Twin Trac** secures and protects asphalt building paper from punctures.
- **Twin Trac** at a 38 3/8" width and 150' length requires 50% less side and end laps on average (compared to 27" x 101" metal lath sheets). This reduces overlaps which create weak points and are a significant source of shrinkage cracking.
- **Twin Trac** utilizes our cold rolled flat wire exclusively for longitudinal wires which provides greater tensile strength and additional surface area for keying purposes.
- Worker friendly **Twin Trac** unwinds from roll into the flat without curvature memory.

StructaLath provides a minimum of 28 (rugged) furring points per square foot that ensure superior embedment and crack resistance.

STRUCTA WIRE CORP.
Structa Wire Corp., Vancouver, BC Canada **1.800.887.4708**
www.structawire.com



BASF
We create chemistry

Technical Data Guide

07 92 00
Joint
Sealants

MasterSeal® NP 150

Low-modulus, non-sag, elastomeric, hybrid sealant

FORMERLY SONOLASTIC® 150 VLM

PACKAGING
– 300 ml (10.1 fl oz) cartridges, 30 cartridges per carton
– 20 oz (590 ml) ProPaks, 20 per carton

COLORS
White, Stone, Limestone, Black, Medium Bronze, Aluminum Gray, Tan, Off-White, Special Bronze, Precast White, Champagne

YIELD
See page 3 for charts

STORAGE
Store in original, unopened containers in a cool, dry area. Protect unopened containers from heat and direct sunlight. Storing at elevated temperatures will reduce shelf life.

SHELF LIFE
15 months when properly stored

VOC CONTENT
13.6 g/L
less water and exempt solvents

DESCRIPTION
MasterSeal NP 150 is a high performance, very low-modulus, high-movement, non-sag, fast-curing, hybrid sealant.

PRODUCT HIGHLIGHTS
- Superior adhesion results in a long-lasting bond, helping to reduce call backs
- Low modulus to accommodate for joint movement (100% extension in EIFS joints with little stress on bond line)
- Can be painted with elastomeric coatings soon after installation
- Easy to gun and tool, speeding up application
- Wide temperature application range
- Weather resistant for long-lasting weathertight seals
- Fast curing helps to speed up jobsite production
- Non-staining formula for use on stone and other sensitive substrates
- Available in ProPaks to reduce jobsite waste and lower disposal costs
- Meets all state and federal VOC regulations

SUBSTRATES
- EIFS
- Stucco
- Aluminum
- Concrete
- Masonry
- Wood
- Stone
- Metal
- Vinyl
- Fiber cement siding

APPLICATIONS
- Vertical or horizontal
- Exterior or interior
- Above grade
- Joints with high movement
- In place of silicone sealants
- Store front systems
- Expansion joints
- Panel walls
- Precast units
- Aluminum, vinyl and wood window frames
- Fascia
- Parapets
- Sanitary applications

HOW TO APPLY
JOINT PREPARATION
1. The product may be used in sealant joints designed in accordance with SWR Institute's Sealants - The Professional's Guide.
2. In optimal conditions, the depth of the sealant should be ½ the width of the joint. The sealant joint depth (measured at the center) should always fall between the maximum depth of ½" and the minimum depth of ¼". Refer to Table 1.

Master Builders Solutions by BASF
www.buildingsystems.basf.com

MASTER® BUILDERS SOLUTIONS

Technical Data Guide
MasterSeal® NP 150

Technical Data

Composition

MasterSeal NP 150 is a formulation based on hybrid polymer.

Compliances

- ASTM C 920, Type S, Grade NS, Class 50, Use NT, M, A, and O*
  -capable of +100/-50% movement under typical field conditions.
- ASTM C 1382 for use with EIFS wall systems at 100% Extension
- Federal Specification TT-S-001543A, Type II, Class A, Type Nonsag
- Federal Specification TT-S-00230C, Type II,Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- CFI accepted
- USDA compliant for use in areas that handle meat and poultry

*Refer to substrates in Where to Use.

Typical Properties

PROPERTY	VALUE
Service temperature range, ° F (° C)	-40 to 180 (-40 to 82)
Shrinkage	None

SEALANT • WATERPROOFING & RESTORATION INSTITUTE

Issued to: **BASF Corporation**
Product: **Sonolastic 150 W/VLM**

C719: Pass ✔ Ext:+50% Comp:-50%

Substrate: Primed Mortar, Unprimed Aluminum and Glass
[mortar substrates were primed with Sonneborn Primer 2000]

C661: Rating 17

Validation Date: 10/12/13 – 10/11/17

No. 1013-VLM1017 *Copyright © 2013*

SEALANT VALIDATION
www.swrionline.org

Test Data

PROPERTY	RESULTS	TEST METHOD
Movement capability, %	±50	ASTM C 719
Extention	100%	ASTM C 1382
100% modulus, psi (MPa)	35 (0.24)	ASTM C 412
Tensile strength, psi (MPa)	140–180	ASTM D 412
Tear strength, lb/in (kg/cm)	40 (7.1)	ASTM D 1004
Ultimate elongation at break, %	800–1,000	ASTM D 412
Rheological, (sag in vertical displacement), at 120° F (49° C)	No sag	ASTM C 639
Extrudability, sec	2 – 3	ASTM C 1183
Hardness, Shore A, at standard conditions	17	ASTM C 661
Weight loss, after heat aging, %	< 10	ASTM C 1246
Tack-free time, min (maximum 72 hours)	90	ASTM C 1246
Stain and color change	Passes (no visible stain)	ASTM C 510
Bond durability,* pli on aluminum and concrete, +/– 50% movement	Passes	ASTM C 719
Adhesion* in peel, pli (kg/cm), (minimum 5 pli [0.89 kg/cm])		ASTM C 794
Aluminum	35 (6.2)	
Concrete	36 (6.4)	
Artificial weathering, Xenon arc, 2,000 hrs	No Cracking	ASTM G 155

*Concrete primed with MasterSeal P 179 for water immersion as indicated in ASTM C 920.
Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

TABLE 1
Joint Width and Sealant Depth

JOINT WIDTH, IN (MM)	SEALANT DEPTH AT MIDPOINT, IN (MM)
½–¾ (13–19)	¼–⅜ (6–10)
¾–1 (19–25)	⅜–½ (10–13)
1–1½ (25–38)	½ (13)

Yield
LINEAR FEET PER GALLON*

JOINT DEPTH, (INCHES)	⅜	½	JOINT WIDTH (INCHES) ⅝
¼	205	154	122
⅜	–	–	82
½	–	–	–

3. In deep joints, the sealant depth must be controlled by closed cell backer rod or soft backer rod. Where the joint depth does not permit the use of backer rod, a bond breaker (polyethylene strip) must be used to prevent three-point bonding.
4. To maintain the recommended sealant depth, install backer rod by compressing and rolling it into the joint channel without stretching it lengthwise. Closed cell backer rod should be about ⅛" (3 mm) larger in diameter than the width of the joint to allow for compression. Soft backer rod should be approximately 25% larger in diameter than the joint width. The sealant does not adhere to it, and no separate bond breaker is required. Do not prime or puncture the backer rod.

SURFACE PREPARATION

Substrates must be structurally sound, fully cured, dry and clean. Substrates should always be free of the following: dirt, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds, membrane materials and sealant residue.

EIFS

1. MasterSeal NP 150 should be applied to the system base coat for best adhesion and to avoid delamination of EIFS finish applied in the joint.
2. Base coat must be sound, well bonded, properly cured and of sufficient depth to comply with manufacturer's specifications.
3. Certain EIFS systems require the use of a primer. Refer to the EIFS manufacturer for recommendations.

CONCRETE, STONE, AND OTHER MASONRY

Clean by grinding, sandblasting or wire brushing to expose a sound surface free of contamination and laitance.

WOOD

New and weathered wood must be clean, dry and sound. Scrape away loose paint to bare wood. Any coatings on wood must be tested to verify adhesion of sealant or to determine an appropriate primer.

METAL

Remove scale, rust and loose coatings from metal to expose a bright white surface. Any coatings on metal must be tested to verify adhesion of sealant or to determine an appropriate primer.

PRIMING

1. MasterSeal NP 150 is generally a non-priming sealant, but special circumstances or substrates may require a primer.
   - Porous materials subject to intermittent water immersion require priming. Use MasterSeal P 179.
   - Certain architectural metal finishes may require priming with MasterSeal P 173.
   - It is the user's responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application. Refer to the technical data guides for MasterSeal P 179 and MasterSeal P 173.
2. Apply primer full strength with a brush or clean cloth. A light, uniform coating is sufficient for most surfaces. Very porous surfaces may require a second coat of MasterSeal P 179; however, do not over apply.
3. Allow primer to dry before applying MasterSeal NP 150. Depending on temperature and humidity, primer will be tack-free in 15–30 minutes. Priming and sealing must be done on the same day.

APPLICATION

1. MasterSeal NP 150 comes ready to use. Apply using professional grade caulking gun. Do not open cartridges, ProPaks or pails until preparatory work has been completed.
2. Fill joints from the deepest point to the surface by holding an appropriately sized nozzle against the back of the joint.
3. Dry tooling is recommended. Proper tooling results in the correct bead shape, neat joints, and optimal adhesion.

CLEAN UP

1. Immediately after use, clean equipment with MasterSeal 990 or xylene. Use proper precautions when handling solvents.
2. Remove cured sealant by cutting with a sharp-edged tool.
3. Remove thin films by abrading.

FOR BEST PERFORMANCE

- In cold weather, store container at room temperature for at least 24 hours before using.
- Not for use in glazing applications. Do not apply on glass and plastic glazing panels.
- For proper sealing of joint edges, all window covers must be removed prior to application of sealant.
- Do not allow uncured MasterSeal NP 150 to come into contact with alcohol-based materials or solvents.
- MasterSeal NP 150 should not be applied adjacent to other uncured sealants and certain petroleum based products.
- MasterSeal NP 150 can adhere to other residual sealants in restoration applications. For best results, always clean the joint as advised in the Surface Preparation section of this data guide. A product field adhesion test for MasterSeal NP 150 within the specific application is always recommended to confirm adhesion and suitability of the application.
- MasterSeal NP 150 should not be used for continuous immersion in water. Contact Technical Service for recommendations.
- Do not apply over freshly treated wood. Allow six months for weathering.
- Do not use MasterSeal P 179 on nonporous surfaces such as aluminum, steel, vinyl or Kynar 500 based paints. Use MasterSeal P 173 on coated metals when testing dictates.
- Lower temperatures and humidity will extend curing times.
- MasterSeal NP 150 can be painted over after a thin film or skin forms on the surface.
- Pursuant to accepted industry standards and practices, using rigid paints and/or coatings over flexible sealants can result in a loss of adhesion of the applied paint and/or coating, due to the potential movement of the sealant. However, should painting and/or coating be desired it is required that the applicator of the paint and/or coating conduct on-site testing to determine compatibility and adhesion.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Technical Data Guide
MasterSeal® NP 150

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.basf.us, e-mailing your request to basfbscst@basf.com or calling 1(800)433-9517. Use only as directed.

For medical emergencies only, call ChemTrec® 1(800) 424-9300.

LIMITED WARRANTY NOTICE

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

BASF Corporation
Construction Systems

889 Valley Park Drive, Shakopee, MN 55379
www.master-builders-solutions.basf.us

Customer Service 1(800)433.9517
Technical Service 1(800)243.6739

DuPont™ Tyvek® HomeWrap®

PHYSICAL PROPERTIES DATA SHEET

PROPERTIES	METHOD	DUPONT™ TYVEK® HOMEWRAP®
Air Penetration Resistance	ASTM E2178 (cfm/ft²@1.57 psf)	< .004
	Gurley Hill (TAPPI T-460) (sec/100cc)	1200
	ASTM E1677	Type 1
Water Vapor Transmission	ASTM E96-05 Method A (g/m²-24 hrs)	400
	(perms)	56
	Method B (glm²-24 hrs)	370
	(perms)	54
Water Penetration Resistance	ATTCC 127 (cm)	250
Basis Weight	TAPPI T-410 (oz/yd²)	1.8
Breaking Strength	ASTM D882 (lbs/in)	30/30
Tear Resistance (Trapezoid)	ASTM D1117 (lbs)	8/6
Surface Burning Characteristics	ASTM E84 Flame Spread Index	15 Class A
	Smoke Developed Index	15 Class A
Ultra Violet Light Exposure (UV)		120 days (4 months)

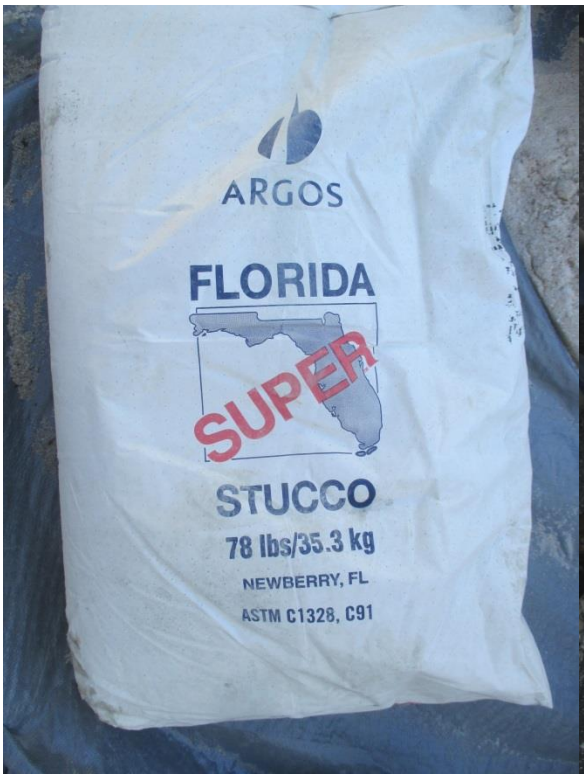
Test results shown represent roll averages. Individual results may vary either above or below averages due to normal manufacturing variations, while continuing to meet product specifications.

For more information about DuPont™ Tyvek® Weatherization Systems, please call 1-800-44-Tyvek or visit us at www.Construction.Tyvek.com

WARNING: DuPont™ Tyvek® is combustible and should be protected from an open flame and other high heat sources. If the temperature of DuPont™ Tyvek® reaches 750 °F (400 °C), it will burn and the fire may spread and fall away from the point of ignition.

DuPont The miracles of science™

DuPont™ Tyvek® HomeWrap®



SHERWIN WILLIAMS.

102.39

LOXON® XP

Waterproofing System
A24-1400 Series

As of 10/05/2015, Complies with:			
OTC	Yes	LEED®09CI	N/A
SCAQMD	Yes	LEED®09NC	N/A
CARB	Yes	LEED®09CS	N/A
CARB SCM 2007	Yes	LEED®H	N/A
MPI #	Yes	NGBS	Yes

CHARACTERISTICS

Loxon XP is an exterior, high build coating that provides excellent flexibility, durability and weather resistance. This product will protect against wind-driven rain when used on concrete, CMU, stucco and shotcrete/gunite. It is highly alkali and efflorescence resistant. This may be applied to a surface with a pH of 6 to 13.

- Apply directly to fresh concrete (at least 7 days old)
- Shotcrete/gunite surfaces may be painted after 3 days
- Can be applied over high pH (up to 13) substrates
- No primer required
- Improved roller appearance
- Can be applied down to 35°F

PHYSICAL PROPERTIES

Wind-Driven Rain Test .....Passes
ASTM D6904-03
2 cts Loxon XP @ 6.4-8.3 mils dft/ct
Water Vapor Permeance ..... 9.6 perms
Based on ASTM D1653
1 ct Loxon XP at 9.4 mils dft
14 day cure @ 77°F & 50% RH
Elongation 275%
ASTM D2370
1 ct Loxon XP at 9.4 mils dft
14 day cure @ 77°F & 50% RH
Tensile Strength .....285 psi
ASTM D2370
1 ct Loxon XP at 9.4 mils dft
14 day cure @ 77°F & 50% RH
Flexibility .....Passes
ASTM D522
Alkali Resistance .....Passes
Based on ASTM D1308
Mildew Resistance ..... Passes
ASTM D3273/D3274
CO_2 Diffusion (anti-carbonation)
ASTM F2476..... 344 meters
Equivalent Air Thickness >50 meters to pass
.....8.0 g/m²/24 hrs
Chloride Ion Permeability ....243 coulombs
"Very Low" Permeability Class
Crack Bridging.....Class A5
EN 1062-7 Method A.....up to 2.5 mm @ -10°C

SPECIFICATIONS

Color: Most colors
1 coat system, brush, roller, or spray applied, coverage per coat:
14-18 mils wet 6.4 - 8.3 mils dry
90 - 115 sq ft/gal
Can be applied up to 40 mils wet.
Coverage will vary with the substrate and the texture.
Coverage on porous & rough stucco 80 square feet per gallon.
Drying Time, @ 50% RH:
temperature and humidity dependent

	@ 35-45°F	@ 45°F+
Touch:	6 hour	4 hours
Recoat:	24-48 hours	24 hours

Drying and recoat times are temperature, humidity, and film thickness dependent.
Flash Point: N/A
Finish: 0-10 units @ 85°
Tinting with CCE only:

Base	oz/gal	Strength
Extra White	0-5	100%
Deep Base	4-12	100%
Ultradeep	4-12	100%
Light Yellow	4-12	100%

Vehicle Type: Styrene Acrylic
A24W01451
VOC (less exempt solvents):
<50 g/L; <0.42 lb/gal
As per 40 CFR 59.406 and SOR/2009-264, s.12
Volume Solids: 46 ± 2%
Weight Solids: 61 ± 2%
Weight per Gallon: 11.47 lb

Mildew Resistant
This coating contains agents which inhibit the growth of mildew on the surface of this coating film.

SPECIFICATIONS

For proper waterproofing performance and to resist alkalies, 2 coats of the coating **MUST** be applied between 14.0 - 18.0 mils wet per coat.

A total dry film thickness of 12 - 16 mils of topcoat and a surface with 10 or less pinholes per square foot is required for a waterproofing system.

For extremely porous block a coat of Loxon Block Surfacer may be required to achieve a pinhole free surface.
For rehabilitating existing concrete water tanks, additional products may be used.

Concrete, Stucco, Concrete Block, CMU, Split-face Block, and other Cementitious surfaces
1 ct. Loxon Block Surfacer (if needed)
or
1 ct Loxon Conditioner (if needed)
1-2 cts Loxon XP

Spray and backroll on porous & rough stucco to achieve required film build and a pin-hole free surface.

Previously Coated in good condition
After power washing, apply 1 coat of Loxon XP over the surface.

Waterproofing System
- Two coats of topcoat
- 6.4 to 8.3 mils dft per coat
- 12.8 to 16.6 mils total dry film thickness
- 10 or less pinholes per square foot

Incidental Wood:
1 ct. Exterior Latex Wood Primer
1-2 cts Loxon XP

Incidental Metal:
(steel, galvanized, or aluminum):
1 ct. Pro Industrial Pro-Cryl Primer
1-2 cts Loxon XP

10/2015 www.sherwin-williams.com continued on back

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SHERWIN WILLIAMS.

102.39

LOXON® XP

Waterproofing System
A24-1400 Series

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (**NIOSH** approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Scrape and sand peeled or checked paint to a sound surface. Sand glossy surfaces dull. Seal stains from water, smoke, ink, pencil, grease, etc. with the appropriate primer/sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Concrete, CMU, Stucco
On tilt-up and poured-in-place concrete, commercial detergents and sandblasting may be necessary to remove sealers, release compounds, and to provide an anchor pattern. Concrete and mortar must be cured at least 7 days at 75°F. Fill bugholes, air pockets, cracks, and other voids with an elastomeric patch or sealant. Rough surfaces can be filled to provide a smooth surface.

Incidental Metal
Wash to remove any oil, grease, or other surface contamination. All corrosion must be removed with sandpaper, steel wool, or other abrading method.

Incidental Wood
Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. All patched areas must be primed.

SURFACE PREPARATION

Sealing and Patching—After cleaning the surface thoroughly, prime any bare surface with Loxon XP, apply an elastomeric patch or sealant if needed, allow to dry, then topcoat.
To improve the performance consider:

- Use caution when preparing the substrate to create a uniform surface.
- Cracks, crevices, and through-wall openings must be patched with an elastomeric patch or sealant.
- Fill voids and openings around window and doors with an elastomeric patch or sealant.
- Stripe coat all inside and outside corners and edges with 1 coat of Loxon XP coating.

APPLICATION

When the air temperature is at 35°F, substrates may be colder; prior to painting, check to be sure the air, surface, and material temperature are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours.
Do not apply at air or surface temperatures below 35°F or when air or surface temperatures may drop below 35°F within 48 hours.
Do not reduce.
Brush - Use a nylon/polyester brush.
Roller - Use a ½" to 1½" nap synthetic roller cover.
Airless Spray
Pressure, minimum ..... 2300 psi
Tip, minimum..... .021"
The substrate and its condition will determine the application procedure. Considerations to minimize pinholes:

- 2 coat application with overnight drying between coats
- Spray application with backrolling
- Power rolling

Spray and backroll on porous & rough stucco to achieve required film build and a pin-hole free surface.

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with a compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

CAUTIONS

For exterior use only.
Protect from freezing.
Non-photochemically reactive.
Not for use on horizontal surfaces (floors, roofs, decks, etc.) where water will collect.
Not for use below grade. Will not withstand hydrostatic pressure.

CAUTION contains **ZINC**. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN**.
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