

1. PRODUCT NAME

ProSpec® Level-Flo® Plastic Lath

2. MANUFACTURER

Akona® Manufacturing, LLC, a TCC Materials® company
(Akona® Manufacturing is a licensed manufacturer of ProSpec®)
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3. PRODUCT DESCRIPTION

ProSpec® Level-Flo® Plastic Lath is a lightweight synthetic lath designed to mechanically attach and reinforce ProSpec® Level-Flo® Self-Leveling Floor Underlayments, and Tile Crete mortar beds over properly constructed wood subfloors. It can also be used as a screed bed leveling system and a one-step system for stone or tile when used with a high bonding strength tile setting mortar. This lath is self-furred on both sides and is easy to cut with a standard utility knife. The lightweight characteristics make it easier to handle and safer to use when compared to traditional expanded diamond metal lath. Meets industry requirements for hydronic and electric radiant heat installations over wood subfloors as called for in the TCNA handbook (RH 122-05 and RH 140-05).

Features and Benefits

- Furred on both sides
- Lightweight for easier handling
- Safer to use, no sharp metal edges
- Cuts easily with standard utility knife
- Alkali-resistant
- Will not rust or corrode under damp and wet conditions
- Passes ASTM C627 Robinson Floor Tests for all Residential and Light Commercial Applications

Uses

- Horizontal interior applications
- For tile, concrete, stone, and other flooring installations over properly constructed APA rated exterior grade/exposure 1 plywood or OSB underlayment grade equivalent substrates
- NTCA required for hydronic and electric radiant heat floor systems
- Constructing countertops
- Replaces metal lath

SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com or contact TCC Materials® at 651-688-9116 (7:30 AM to 4:00 PM, M-F, Central US Time).

CAUTIONS

Read complete cautionary information printed on product container prior to use.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered ProSpec® brand product(s) under normal environmental and working conditions. Because each project is different, neither ProSpec® nor TCC Materials® can be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Passes ASTM C627 Robinson Floor Tests for all Residential and Light Commercial Applications

Packaging

- Roll: 100 sq. ft. (9.3 m²) - Product # 104289
measures 20 in. Wide x 60 ft. Long (51 cm x 12.2m);
24 rolls per pallet

5. INSTALLATION

Preparation

- Surface must be structurally sound and non-flexing to meet the deflection requirements of the finished flooring. Remove all dust, waxes, sealers, old adhesive residue, curing compounds, oil, or other foreign materials prior to application.
- Reference ProSpec® Level-Flo® Underlayments or ProSpec® Tile Crete Floor Underlayments TDS for more detailed information for the substrate requirements and preparation instructions. Substrate should be constructed APA rated exterior grade/exposure 1 plywood or OSB underlayment grade equivalent, secured with screws or nails and glued where possible. Securely fasten plywood substrates at 6 in. (15 cm) centers along panel edges and 8 in. (20 cm) centers each way throughout the panel: offset joints of subfloor and underlayment. A gap of 3/16 in. (4.8 mm) shall be left between sheets of plywood and between the plywood edges and all other surfaces which they abut to allow for expansion. These gaps shall remain empty when the installation is complete. Use duct tape or a flexible sealant to cover these gaps before attaching lath.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Job Mockups

The manufacturer requires that when its ProSpec® products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.

Application

1. Cut ProSpec® Level-Flo® Plastic Lath to preferred size. Edges can be overlapped or tightly "butt-jointed" depending on overall thickness of installation and finished flooring manufacturers recommendations. Make sure lath joints are off-set to plywood joints.
2. Allow for adequate perimeter expansion at walls, doors, staircases or any change of plane where Plastic Lath abuts. These gaps should be left open and filled with a flexible sealant or foam expansion tape.
3. Hold plastic lath flat to the substrate with raised edges down and secure with staple fasteners or roofing nails every 4 in. (10 cm) in all directions. Staple fasteners shall penetrate substrate a minimum of 3/8 in. (9.5 mm). Continue process until the entire work area is completed and secured. Fastening in a fan pattern can help lath to lay flat without gaps.

Recommended fasteners and attachment patterns:

- Option A: Use 1/2 in. (13 mm) crown galvanized staples (min. 3/8 in. [10 mm] leg) every 2 in. (5 cm) around the perimeter and 4" (10 cm) in the field.
- Option B: Use 1 in. (2.5 cm) crown galvanized staples (min. 3/8 in. [16 mm] leg) every 3 in. (7.6 cm) around the perimeter and 6 in. (15 cm) in the field.
- Option C: Use hot-dipped galvanized roofing nails (min. 1 in. [2.5 cm] length) every 3 in. (7.6 cm) around the perimeter and 6 in. (15 cm) in the field.

Self-leveling underlayment and mortar bed application:

ProSpec® Level-Flo® Self-Leveling Floor Underlayments, and Tile Crete floor underlayments can be immediately installed over lath. Follow product technical data sheet instructions.

One-step system:

Maximum variation in the plywood surface shall not exceed 1/4 in. (3 mm) in 10 ft. (3 m) from the required plane. Using pressure, apply an appropriate high-strength, polymer-modified tile setting mortar with the flat side of the trowel to fill the lath structure. Immediately follow using the proper sized notched trowel, combing additional mortar and placing tile or stone into mortar.

Screed bed / scratch coat leveling system:

This is a two-step process. Substrate irregularities should not exceed 1/2 in. (13 mm). Using pressure, apply an appropriate

high-strength, polymer-modified tile setting mortar with the flat side of the trowel to fill the lath structure up to 1/2 in. (13 mm) thickness. Allow scratch coat to cure for a minimum of 3-4 hours prior to installation of tile or stone.

Movement Joints:

Expansion joints should be installed in accordance to local building codes. See EJ 171 in TCA handbook for specific requirements.

Finished floor installation:

Installing ceramic tile or natural stone should be performed in accordance to ANSI A108.1B, A108.5 and instructions found in setting materials data sheets.

Refer to:

TCNA (Tile Council of North America) Handbook:
Ceramic Tile Installation

American National Standard Specifications: Installation of Ceramic Tile

Limitations

- Not for vertical applications.
- Plywood substrates placed over conventional floor joist or other systems, should be of a design and thickness so as to maintain a substrate deflection not to exceed 1/360 of span for tile or 1/720 span for stone, including live, dead, impact, and concentrated loads. Deflection should be measured under a 300 lb. (136 kg) concentrated load per ASTM C627.
- Un-gapped plywood sheets, butted tongue & groove plywood, and/or gaps filled with mortar will not allow for expansion and contraction of plywood sheets and can result in substrate buckling failure.
- Do not use to bridge or cover over existing expansion, control, construction, cold or saw-cut joints.
- Do not bond directly to hardwood or strip wood surfaces, fire retardant/treated plywood, luan plywood, particle board, gypsum underlayments, Masonite, parquet, cushion or sponge-back vinyl flooring, metal, fiberglass, or plastic.
- This product is not intended to be used over improperly cured or wet plywood. Wood flooring should be properly ventilated on the underside and protected from water vapor and moisture.
- All plywood surfaces and plywood surfaces supported by joists should be dry prior to installing of ceramic tile as any shrinkage that occurs after the installation can cause failures.
- For installations over vinyl flooring, use longer staples with a minimum length of 5/8 in. (16 mm) to assure ample penetration into the plywood.
- For exterior applications, contact TCC Materials®.

Coverage

- Roll size is 100 sq. ft. (9.3 m²)

6. AVAILABILITY

To locate ProSpec® products in your area, please contact:

Phone: 1.651.688.9116
Website: tccmaterials.com

7. WARRANTY

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller's liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

8. MAINTENANCE

Not applicable.

9. TECHNICAL SERVICES

Technical Assistance:

Information is available by calling TCC Materials®
(hours 7:30 AM to 4:00 PM, M-F, CST):

Phone: 1.651.688.9116
Fax: 1.651.688.6164
Web: tccmaterials.com

Technical and Safety Literature:

To acquire technical and safety literature, please visit our website at: tccmaterials.com.

10. FILING SYSTEM

Division 6

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Data Sheets are subject to change without notice. For the latest revision, check our website at tccmaterials.com



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