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Application instructions for use of Adex ARBORIA | stain effect on vertical walls.

PART 1 GENERAL

1.1 Related Sections

1. Section 01 40 00: Quality Requirements
2. Section 03 30 00: Cast-in-Place Concrete
3. Section 04 20 00: Unit Masonry
4. Section 05 40 00: Cold-Formed Metal Framing
5. Section 06 10 00: Rough Carpentry
6. Section 07 24 00: Exterior Insulation and Finish Systems
7. Section 09 28 00: Backing Boards and Underlayments
8. Section 09 90 00: Painting and Coatings

1.2 Description

- 1.2.1 Adex ARBORIA | Stain Effect is a wood-grain decorative finish effect for use over Adex EIFS (Exterior Insulation Finish System) panels and other prepared substrates. It is a multi-layered application providing a smooth, wood plank/panel appearance.

1.3 Design Requirements

- 1.3.1 All work undertaken must comply with the current codes and standards, best practice guides, as well as the manufacturer's installation instructions.
- 1.3.2 The substrate shall be engineered to withstand all applicable loads, including live, dead, seismic, suction, etc.
- 1.3.3 Recommended Substrates:
 - 1.3.3.1 Adex EIFS. Adex ARBORIA will replace the typical Adex Finish Coat materials when used in an Exterior Insulation Finish System (EIFS).
 - 1.3.3.2 Interior Walls. Adex ARBORIA is suitable for application on prepared interior substrates. Please contact an Adex Technical Representative for further information.
- 1.3.4 The architect and general contractor shall be advised of any discrepancies. Work shall not proceed until unsatisfactory conditions are corrected.

- 1.3.5 Expansion joints shall be planned in accordance with the chosen substrate over which the ARBORIA | Stain Effect will be installed.

1.4 Quality Assurance

1.4.1 Manufacturers

- 1.4.1.1 EIFS manufacturer shall be Adex Systems Inc.
- 1.4.1.2 Be a member of and in good standing with the EIFS Council of Canada.
- 1.4.1.3 All other third-party material manufacturers shall be recognized by Adex Systems Inc.

1.4.2 Applicators

- 1.4.2.1 Applicators shall have the necessary permits.
- 1.4.2.2 Applicator shall have a minimum of (2) two-years of experience in applying EIFS systems and employ sufficient, knowledgeable personnel to complete work on schedule.
- 1.4.2.3 Applicator shall follow all EIFS manufacturer's directions when installing system components.

1.5 Delivery & Storage

- 1.5.1 Deliver materials to the job site in their original unopened packages, clearly marked with the manufacturer's name, and description of contents.
- 1.5.2 Store in a clean, dry, well-ventilated area at a temperature not less than 5°C (41°F).
- 1.5.3 Protect materials from the elements of weather, and keep away from excessive heat (temperatures above 32°C (90°F)).

1.6 Job Conditions

- 1.6.1 Ambient and surface temperatures shall be minimum 10°C (50°F) during installation.
- 1.6.2 When installing in climatic temperatures below 10°C (50°F), tarping, heating and ventilation shall be provided to maintain proper installation temperatures.
- 1.6.3 Ambient temperature shall be maintained above 5°C (41°F) for a

minimum of 24 hours after installation to ensure that drying is complete. Allow for extended drying times in cool, higher humidity conditions.

- 1.6.4 Installation of Adex materials shall be coordinated with other construction trades.

1.7 Training

1.7.1 The contractor installing Adex ARBORIA | Stain Effect shall be familiar with the installation of wood-grain coatings and have contacted Adex Systems for training on the installation of Adex ARBORIA.

1.7.2 Adex Systems does not guarantee the workmanship of 3rd-Party contractors trained on Adex ARBORIA. An on-site mock-up is strongly recommended.

1.8 ARBORIA Mock-Up

1.8.1 Construct an ARBORIA mock-up panel on site as part of the actual wall on an area as indicated by the Consultant. The approved mock-up panel shall form a standard for the project.

1.9 Warranty

1.9.1 Upon request, the manufacturer shall provide a (5) five-year limited warranty, stating that materials conform to specifications and are free of manufacturing defects.

PART 2 MATERIALS

2.1 Manufacturer

2.1.1 All components of the Adex ARBORIA application shall be obtained from Adex Systems Inc., or its authorized distributors. No substitution or addition of other materials is permitted without the written consent from the manufacturer.

2.2 Products

2.2.1 Adex SONORA or Adex SIENA Finish Coat; One component, smooth and sandable leveling coat for exterior surfaces.

- Select Adex SONORA for smooth wood-grain panels.
- Select Adex SIENA for rough wood-grain panels.
- Colour: [Reference the Adex Serial Number used to develop the required colour]

2.2.2 Adex REVIFLEX Liquid Coat; high-quality, 100% acrylic, roll-on paint coating.

- Colour: [Reference the Adex Serial Number used to develop the required colour]

2.2.3 Adex PRO-TEX Sealer; Protective transparent liquid coat with a semi-gloss lustre.

2.3 Other Materials

2.3.1 Water

- 2.3.1.1 Shall be clean, potable, and free of sediment.

2.4 Special Installation Tools

2.4.1 Paint roller; 102-154 mm (4"-6") Paint Roller

2.4.2 Spray Bottle

2.4.3 Wood Graining Tool; Rubber corrugation mounted on quarter round block.

- Advance 5" Graining Tool,
- Advance 3" Graining Tool,
- or similar.

PART 3 APPLICATION

3.1 Substrate Panel Sizing: EIFS substrates should be divided in one of the following manners:

NOTE: choose one of the following formats.

3.1.1 PANELS:

3.1.1.1 EIFS Reveals must be installed to 'panelize' the lamina surface into working panel areas no smaller than 0.61m x 0.61m (2ft x 2ft) up to an approximate panel size of 1.52m x 1.52m (5ft x 5ft).

3.1.1.2 For optimal working conditions, the maximum area of any panel should not exceed more than 2.32 m² (25 sf²) and the maximum vertical height of any given panel shall not exceed 1.83m (6 ft).

3.1.2 PLANKS:

3.1.2.1 Install EIFS reveals (1/2") horizontally (horizontal planks) or vertically (vertical planks), spacing them equally apart; 152mm -to- 254mm (6"-to-10").

3.1.2.2 For optimal working conditions, the length of plank reveals should not exceed 2,438mm (8ft) without a control joint (reveal).

3.2 Prior to installation of Adex ARBORIA, inspect the substrate to verify that it is structurally sound and solid, ensuring there are no irregular voids or projections, and that panel area size

conforms to specifications.

3.2.1 The architect and general contractor shall be advised of any discrepancies with the substrate. Work shall not proceed until unsatisfactory conditions are corrected.

3.3 Surface Preparation

3.3.1 EIFS Substrates:

3.3.1.1 All layers of Adex Reinforcing mesh must be fully embedded into the EIFS base coat.

3.3.1.2 The Adex BASE COAT must be fully dried (minimum of 24 hours, depending on environmental conditions).

3.3.1.3 All walls shall be free of dust, dirt, efflorescence and all other surface contaminants, which may impair the adhesion of any Adex components.

3.3.1.4 Please contact an Adex Representative for assistance with any irregular surface conditions.

3.3.2 Other substrates:

3.3.2.1 Inspect the substrate to verify that it is structurally sound and solid, ensuring there are no irregular voids or projections.

3.3.2.2 If the substrate requires leveling and/or reinforcement, an installation of Adex BASE COAT with appropriate Fiberglass Reinforcing Mesh may be required. Follow the installation instructions included in the respective technical data sheet, or contact an Adex Representative for recommended preparation procedures.

3.4 On-Site Mock-Up

3.4.1 Construct an Adex ARBORIA | Stain Effect mock-up panel (including reveals) on site as part of the actual wall on an area as indicated by the Consultant.

3.4.2 The approved mock-up panel(s) shall form a 'standard' for the project and for all ARBORIA installations on site.

3.5 Mixing

3.5.1 Adex SONORA or SIENA finish coat;

3.5.1.1 Mix the contents of the pail until thoroughly blended. This will remove any settling of the contents due to storage.

3.5.1.2 After mixing, SONORA/SIENA is ready to use. Do not overmix.

3.5.1.3 Refer to the Adex Technical Data

Sheet for more information.

3.5.2 Adex REVIFLEX liquid coat;

3.5.2.1 Prior to installation, REVIFLEX must be well-shaken or thoroughly mixed with a paddle mixer and electric drill.

3.5.2.2 Ensure all mixing equipment in direct contact with the REVIFLEX priming agent is clean and free from debris and loose particles. Do not overmix.

3.5.2.3 Refer to the Adex REVIFLEX Technical Data Sheet for more information.

3.5.3 Adex PRO-TEX sealer coat;

3.5.3.1 Thoroughly agitate PRO-TEX sealer coat or mix with a clean paddle mixer and electric drill. Periodically remix the product to avoid separation.

3.5.3.2 Ensure all mixing equipment in direct contact with the PRO-TEX sealer coat is clean and free from debris and loose particles.

3.5.3.3 The addition of water is not necessary, but small amounts may be added to adjust consistency in the spray equipment (up to 10%). Do not overmix.

3.5.3.4 Refer to the Adex PRO-TEX sealer coat Technical Data Sheet for more information.

3.6 Application

3.6.1 Adex SONORA or SIENA finish coat (base colour);

3.6.1.1 Trowel-apply a 0.8 mm (1/32") primary coat of SONORA/SIENA onto the basecoat surface. Use aesthetic groove sleds and corner tools to create and maintain crisp details. Allow SONORA/SIENA to dry thoroughly.

3.6.1.2 Using a stucco rub brick or coarse (60-80 grit) sandpaper, sand the surface smooth (following the grain direction) to remove trowel lines and imperfections in the SONORA/SIENA. Wear proper protective equipment when sanding and removing imperfections. Brush away all construction dust from the surface of the wall.

3.6.1.3 Trowel-apply a second 0.4 mm-to-0.8 mm (1/64"-to-1/32") coat of SONORA/SIENA overtop of the primary coat.

3.6.1.4 If installing SIENA, the finish can be floated directionally to create physical graining. Allow the finish coat to dry thoroughly.

3.6.1.5 Using fine or ultra-fine (150-

220 grit) sandpaper, sand the surface smooth (following the grain direction) to remove trowel lines and imperfections in the SONORA/SIENA. Wear proper protective equipment when sanding and removing imperfections. Brush away all construction dust from the surface of the wall.

3.6.2 Adex REVIFLEX liquid coat (graining coat);

3.6.2.1 Using a brush, apply REVIFLEX liquid coat into all reveal grooves.

3.6.2.2 Using a paint roller, apply a thin coat of REVIFLEX liquid coat onto the surface of the SONORA/SIENA coat. Work only on one plank or panel at one time, ensuring to maintain a wet edge. Maintain a wet edge by lightly spraying the surface of the REVIFLEX with water (as required).

3.6.2.3 Add graining to the surface by running a wood-graining tool along the length of the coated finish. Start by applying the tool to the edge of the panel or plank and not in the centre. Rock the tool back and forth to create the desired wood-grain pattern.

3.6.2.4 Clean excess REVIFLEX off of the graining tool between passes.

3.6.2.5 Alternate the wood-grain appearance by altering your technique and direction of the wood-graining tool.

Examples:

- Knot (by pulling the tool),
- Fine comb edge,
- Knot (by pushing the tool), or
- Rough comb edge.

3.6.2.6 Do not make two overlapping passes using the graining tool. If there are inconsistencies in the application of REVIFLEX, immediately mist (using spray bottle) and wipe away before re-applying REVIFLEX and graining.

3.6.2.7 Allow to dry for a minimum of 12-hours or until completely dry to touch.

3.6.2.8 Visible irregularities or heavy stain areas can be sanded using a 100-150 grit sandpaper to remove imperfections.

3.6.3 Adex PRO-TEX sealer coat;

3.6.3.1 With a roller or proper spray equipment, apply an even coat of PRO-TEX sealer coat over the entire surface. Maintain a wet edge. PRO-TEX sealer coat will appear milky-white when wet and appear clear once completely dry.

3.7 Protection

3.7.1 Provide protection against dirt, moisture, high humidity, and freezing temperatures until materials are fully dry.

3.8 Clean Up

3.8.1 After completion, remove waste and leftover materials from the job site.

3.8.2 Clean all adjacent materials and surfaces, and repair any defects to this application or any defects to any other work caused by this application, all to the approval of the consultant.

ALL REQUESTS FOR APPLICATION PROCEDURAL CHANGES MUST BE AUTHORIZED IN WRITING BY ADEX SYSTEMS INC.

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