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Application instructions for use of Adex METALLEX 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 METALLEX is a 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, high-gloss pearlescent 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 METALLEX will replace the typical Adex Finish Coat materials when used in an Exterior Insulation Finish System (EIFS).
 - 1.3.3.2 Interior Walls. Adex METALLEX 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 METALLEX 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 METALLEX shall be familiar with the installation of high-gloss, spray-applied paint coatings and have contacted Adex Systems for training on the installation of Adex METALLEX.

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

1.8 METALLEX Mock-Up

1.8.1 Construct a METALLEX 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 METALLEX 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 SURFAGLAZE XT; One component, smooth and sandable leveling coat for exterior surfaces.

2.2.2 Adex PRIMEX NG; Coloured, priming agent without aggregate (smooth) manufactured by Adex Systems Inc. Material tinted to the same colour as the CRYSTAL liquid coat installed over it.

2.2.3 Adex CRYSTAL Liquid Coat; Metallic-sheen, liquid coating available in a variety of standard and custom colours.

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

2.3 Other Materials

2.3.1 Water

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

2.4 Installation Tools

Aside from the standard tools an installer requires for typical EIFS installations, the following tools are recommended:

- Sheet Sander or Sanding Block
- Stucco Rub brick or 60-80 grit sandpaper (Coarse)
- 150-220 grit sandpaper (Fine and Very-Fine)
- Painters Masking Tape
- Polyethylene Film (Light) or General Purpose Masking Paper
- 4'-to-6'ft Aluminum Straight Edge
- Paint Roller and short nap Roller cartridges
- Wind screens or Tarps

2.5 HVLP Paint Sprayer Equipment

The following set-ups are suitable for spraying CRYSTAL Liquid Coat (or equivalent):

- For smaller projects; a HVLP Turbine system. This setup is suitable for spraying smaller project areas, up to 55 square feet (sprayed in two coats) before needing to refill the paint cup.

- Lemmer T-75Q (3 stage) HVLP Turbine Kit (Part #L080-051),

- Lemmer A-712 Turbine Bleeder Spray Gun with 1-Litre pressurized cup (Part #L080-511, included with T-75Q Kit),
- Lemmer 2.0mm nozzle for A-712 Spray Gun (Part #L080-847, included with T-75Q Kit).



OR :

b) For medium-to-larger projects, and better spray gun maneuverability; a combination HVLP Turbine and Pressure Pot system:

- Lemmer T-75Q (3 stage) HVLP Turbine Kit (Part #L080-051),
- 2-1/4 Gallon Pressure Pot with manual agitator (Part # L011075),
- 25ft x 3/8" air/fluid hose (Part #L080-729), or alternative,
- Lemmer Mini-compressor MC-80, to pressurize the Lemmer Pressure Pot (Part# L011058), or alternative



• Air Compressor; with the following minimum specifications:

- 2-cylinder pump,
- 20-Gallon air storage tank,
- 8.2 cfm (@40psi) and 6.5 cfm (@90psi) output (minimum recommended)

• Lemmer HVLP Pressure Pot Kit, choose one of the following:

- 2-1/4 Gallon Pressure Pot HVLP Kit, including 2-1/4 Gallon pressure pot, A-910 HVLP pressure-feed spray gun, 1.8mm nozzle, and 25ft x 3/8" air/fluid hose. (Part #L011-070),

-or-

- 5 Gallon Pressure Pot HVLP Kit, including 5 Gallon pressure pot, A-910 HVLP pressure-feed spray gun, 1.8mm nozzle, and 25ft x 3/8" air/fluid hose. (Part #L011-072),

• Lemmer 3/8 x 50' air supply hose; compressor to pot (Part #L035-122).

• Lemmer A910, 2.0 needle/seat/cap kit (Part #L015-852)



OR :

c) For large projects, maximum productivity, and functionality; a HVLP Pressure Pot system with air compressor. This setup, including a 5-Gallon pressure pot, allows users to insert a full pail of Adex CRYSTAL into the pressure pot, allowing coverage up to 950 square feet per pail (sprayed in two coats).

Note: Airless sprayers are not recommended due to the high pressure, overspray, and high material use that can occur with these types of equipment. For additional information on recommended HVLP paint sprayer setups, please contact your local Adex Representative.

PART 3 APPLICATION**3.1 Substrate Panel Size**

3.1.1.1 EIFS Reveals/Control joints 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 The maximum area of any panel shall be not more than 2.32 m² (25 sf²) and the maximum vertical height of any given panel shall not exceed 1.83m (6ft)

3.1.2 Prior to installation of Adex METALLEX, 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.

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

3.2 Surface Preparation**3.2.1 EIFS Substrate:**

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

3.2.1.2 Install an additional skim-coat of Adex BASE COAT or Adex DRYMIX to remove the appearance of reinforcing mesh imprints and/or mesh overlaps.

3.2.1.3 The Adex BASE COAT must be smooth, with minimal deflection, to ensure proper appearance of ADEX METALLEX.

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

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

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

3.2.2 Other substrates:

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

3.2.2.2 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.

3.3 On-Site Mock-Up

3.3.1 Construct an Adex METALLEX mock-up panel (including reveals) on site as part of the actual wall on an area as indicated by the Consultant.

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

3.4 Mixing

3.4.1 Adex SURFAGLAZE XT levelling coat;

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

3.4.1.2 After mixing, SURFAGLAZE XT is ready to use. Do not overmix.

3.4.1.3 Refer to the Adex SURFAGLAZE XT Technical Data Sheet for more information.

3.4.2 Adex PRIMEX NG priming agent;

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

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

3.4.2.3 Refer to the Adex PRIMEX NG Technical Data Sheet for more information.

3.4.3 Adex CRYSTAL liquid coat;

3.4.3.1 Thoroughly agitate CRYSTAL liquid coat or mix with a clean paddle mixer and electric drill. Periodically remix the product to avoid separation.

3.4.3.2 Ensure all mixing equipment in direct contact with the CRYSTAL liquid coat is clean and free from debris and loose particles.

3.4.3.3 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.

3.4.3.4 Refer to the Adex CRYSTAL Technical Data Sheet for more information.

3.5 Application

3.5.1 Adex SURFAGLAZE XT levelling

- coat;
- 3.5.1.1** Trowel-apply a 0.8 mm (1/32") primary coat of SURFAGLAZE XT onto the basecoat surface. Use aesthetic groove sleds and corner tools to create and maintain crisp details. Allow SURFAGLAZE XT to dry thoroughly.
 - 3.5.1.2** Using a stucco rub brick or coarse (60-80 grit) sandpaper, sand the surface smooth to remove trowel lines and imperfections in the SURFAGLAZE XT. Wear proper protective equipment when sanding and removing imperfections. Brush away all construction dust from the surface of the wall.
 - 3.5.1.3** Trowel-apply a second 0.4 mm-to-0.8 mm (1/64"-to-1/32") coat of SURFAGLAZE XT otop of the primary coat. Allow the SURFAGLAZE XT to dry thoroughly.
 - 3.5.1.4** Using fine or ultra-fine (150-220 grit) sandpaper, sand the surface smooth to remove trowel lines and imperfections in the SURFAGLAZE XT. Wear proper protective equipment when sanding and removing imperfections. Brush away all construction dust from the surface of the wall.
 - 3.5.1.5** Regularly check surfaces using a straight-edge to identify any irregularities or deflection.
 - 3.5.1.6** Apply as many coats of SURFAGLAZE XT as required to obtain a smooth, paintable surface. High gloss coatings, such as Adex CRYSTAL, will highlight imperfections in the substrate that they are installed over. For best results, it is imperative that care is taken to achieve a defect-free surface.
- 3.5.2** Adex PRIMEX NG priming agent;
- 3.5.2.1** Using a short-nap paint roller or sprayer equipment, apply a consistent and uniform coat of PRIMEX NG (Non Grit) to the dry layer of SURFAGLAZE XT. Allow to dry for a minimum of 12-hours or until completely dry.
 - 3.5.2.2** If there are inconsistencies in the application of PRIMEX NG, apply an additional coat and allow to dry. For visible overlaps and overspray of primer, lightly sand with ultra-fine (150-220 grit) sandpaper to remove the irregularity. Do not continue with installation until all visible irregularities have been corrected.
- 3.5.3** Adex CRYSTAL liquid coat;
- 3.5.3.1** Before spraying METALLEX panels, ensure proper setup of all HVLP paint spraying equipment. Complete a test spray pattern over scrap material and adjust as necessary.
 - 3.5.3.2** Protect spray area from excessive wind by installing tarps or windscreens. Coordinate with project manager and other trades to protect nearby surfaces and remove equipment/vehicles away from elevations being sprayed.
 - 3.5.3.3** Do not spray in direct sunlight. Spray apply Adex CRYSTAL in the shade or install shade tarps or sun screens on site. Ensure wall temperatures are below 32°C (90°F) or Adex CRYSTAL will dry too quickly, resulting in irregular drying patterns and appearance.
 - 3.5.3.4** The viscosity of CRYSTAL liquid coat, used directly out of the pail, is suitable to spray through a 2.0mm nozzle using the recommended spray equipment. If desired, consistency and viscosity of the CRYSTAL liquid coat can be adjusted using potable water (diluting it by up to 10%) or by using a water-based latex extender additive.
- NOTE: Adjust all pails using the same dilution method for consistency in the spray equipment and appearance on the wall.
- 3.5.3.5** Work on a panel-by-panel basis, masking and protecting all adjacent panels and surfaces from overspray. Mask panels at locations where reveals return.
 - 3.5.3.6** CRYSTAL liquid coat is spray applied in a two-coat application.
 - 3.5.3.7** 1st Coat CRYSTAL metallic liquid coat;
 - a) Hold the spray gun perpendicular to the wall and make consistent strokes horizontally across the panel overlapping each pass by 50%.
 - b) Similarly, adjust your nozzle and run your sprayer vertically across the panel, overlapping each pass by 50%.
 - c) A combination of horizontal and vertical paint sprayer applications (cross-hatching) completes one coat of Adex CRYSTAL liquid coat. Use a consistent spray pattern across all panels.
 - d) Allow to dry for a minimum 30-minutes or until dry to touch.

3.5.3.8 2nd Coat CRYSTAL metallic liquid coat;

- a) Repeat the same procedure to apply the second coat of CRYSTAL liquid coat using a similar cross-hatch application. The result is a smooth panel surface with a high-gloss metallic sheen.
- b) Immediately remove all masking tapes from adjacent surfaces while the Adex CRYSTAL liquid coat is still wet.

3.5.3.9 Prime and re-spray any panels that do not meet the aesthetic benchmark of the approved mock-up.

3.6 Protection

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

3.7 Clean Up

- 3.7.1 After completion, remove waste and leftover materials from the job site.
- 3.7.2 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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