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Application instructions for use of BRIK-TEX on vertical walls

PART 1 GENERAL

1.1 Scope

- 1.1.1 Provide all labor, materials and equipment necessary to apply Adex BRIK-TEX specialty finish over exterior and interior vertical walls consisting of exterior insulation and finish systems (EIFS), concrete & masonry, stucco, and interior drywall surfaces.

1.2 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

1.3 Description

- 1.3.1 Adex BRIK-TEX is a decorative finish effect that recreates the appearance of brick finishes in a lightweight and customizable application. Using custom-cut self-adhered stencils and a combination of Adex Mortar and Finish Coat products, designers are able to create unique brick and tile colour patterns with minimal design constraints.

1.4 Design Requirements

- 1.4.1 All work undertaken must comply with the current codes and standards, best practice guides, as well as the manufacturer's installation instructions.
- 1.4.2 The substrate shall be engineered to withstand all applicable loads, including live, dead, seismic, suction, etc.
- 1.4.3 Recommended substrates:
 - 1.4.3.1 Adex EIFS Base Coat: BRIK-TEX will replace the typical Adex Finish Coat materials when used in an Exterior insulation Finish system

(EIFS).

- 1.4.3.2 Exteriors; properly installed and prepared stucco, concrete, or masonry.

- 1.4.3.3 Interiors; properly installed and prepared drywall, plaster, concrete, or masonry.

- 1.4.4 The architect and general contractor shall be advised of any discrepancies. Work shall not proceed until unsatisfactory conditions are corrected.

- 1.4.5 Expansion joints shall be planned in accordance with the chosen substrate over which the BRIK-TEX will be installed.

1.5 Quality Assurance

1.5.1 Manufacturers

- 1.5.1.1 EIFS manufacturer shall be Adex Systems Inc.

- 1.5.1.2 All other third-party material manufacturers shall be recognized by Adex Systems Inc.

1.5.2 Applicators

- 1.5.2.1 Applicators shall have the necessary permits.

- 1.5.2.2 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.

- 1.5.2.3 Applicator shall follow all EIFS manufacturer's directions when installing system components.

1.6 Delivery & Storage

- 1.6.1 Deliver materials to the job site in their original unopened packages, clearly marked with the manufacturer's name, and description of contents.

- 1.6.2 Store in a clean, dry, well-ventilated area at a temperature not less than 5°C (41°F).

- 1.6.3 Protect materials from the elements of weather, and keep away from excessive heat (temperatures above 32°C (90°F)).

1.7 Mock-Up

- 1.7.1 Construct a BRIK-TEX 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.

1.8 Job Conditions

- 1.8.1 Ambient and surface temperatures shall be minimum 5°C (41°F) during installation.
- 1.8.2 When installing in climatic temperatures below 5°C (41°F), tarping, heating and ventilation shall be provided to maintain proper installation temperatures.
- 1.8.3 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.
- 1.8.4 Installation of Adex materials shall be coordinated with other construction trades.

PART 2 MATERIALS

2.1 Manufacturer

- 2.1.1 All components of the Adex BRIK-TEX 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 Base Coat (optional)
 - 2.2.1.1 Shall be 100% acrylic-based such as Adex BASE COAT or Adex NIVELEX.
 - 2.2.1.2 Base Coat shall be only required when substrate conditions do not allow for the adhesion of the Adex Finish Coats part of the BRIK-TEX.
- 2.2.2 Fiberglass Reinforcing Mesh (optional)
 - 2.2.2.1 Shall be alkali-resistant and selected from the following options below:
 - a)UNITAPE MESH: 65g/m² 2 oz/yd²
 - b)QUICK TAPE MESH: 65g/m² (2 oz yd²)
 - c)STANDARD MESH: 150g/m² (4.5oz/yd²)
 - 2.2.2.2 Fiberglass Reinforcing Mesh shall be used in conjunction with the basecoat only when required.
- 2.2.3 Primer (as required)
 - 2.2.3.1 Shall be a tinted, acrylic-based, roll-on or spray-on priming agent, such as PRIMEX PRIMER or PRIMEX NG PRIMER, manufactured by Adex Systems Inc. PRIMEX/PRIMEX NG is not always mandatory but highly recommended as it will enhance the depth of colour, increase the yield and

enhance the longevity of the finish coat.

2.2.4 Finish Coat "Mortar Layer".

- 2.2.4.1 The following, smooth-appearance, base coatings are recommended.

SPEC NOTE: PLEASE SELECT ONE OF THE FOLLOWING FINISH COATS WITH ATTRIBUTED COLOUR, DELETE ALL OTHERS

- a)Adex ADHESIVE MORTAR; Mortar/Grout coat designed specifically for use with the BRIK-TEX System.
 - Colour: [Reference the Adex Serial Number used to develop the required colour].
- b)Adex SONORA; Ultra-smooth finish coat (two-coats).
 - Colour: [Reference the Adex Serial Number used to develop the required colour].
- c)Adex NON-CEMENTITIOUS BASE; a tintable acrylic-polymer basecoat compound that is ready-to-use out of the pail.
 - Colour: [Reference the Adex Serial Number used to develop the required colour].

- 2.2.4.2 For custom or alternative mortar layers, please contact your local Adex Representative.

2.2.5 Adex BRIK-TEX templates.

- 2.2.5.1 A custom designed template with self-adhesive backing manufactured from recycled High-Impact PolyStyrene (HIPS) plastic or alternative.

- 2.2.5.2 Ensure adequate volume of templates have been ordered and are available to complete the area of wall required to receive the BRIK-TEX application.

- 2.2.5.3 2.2.5.3BRIK-TEX templates are available in thinner (0.023) and thicker (0.060) mil depth. See TABLE 1 at the end of this document or view the adex.ca website for more images and information on each style.

2.2.6 Finish Coat "Brick Layer"

- 2.2.6.1 Shall be a factory-mixed, 100% acrylic-based Adex Finish Coat, containing integral colour and texture.
- 2.2.6.2 Texture: [Reference the desired Adex standard or specialty textured finish coat].
- 2.2.6.3 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.

2.3.2 Cement

- 2.3.2.1 Shall be lump-free, Type GU or

Type 10 Portland cement conforming to CSA-A-3001.

PART 3 APPLICATION

3.1 Inspection of the Substrate

3.1.1 Adex EIFS Base Coat:

- 3.1.1.1 All layers of Adex Fiberglass Reinforcing Mesh must be fully embedded into the EIFS basecoat.
- 3.1.1.2 The basecoat layer must be smooth, with minimal deflection, to ensure proper adhesion of the BRIK-TEX templates.
- 3.1.1.3 The basecoat must be fully dried (minimum of 24 hours, depending on environmental conditions).
- 3.1.1.4 All walls shall be free of dust, dirt, efflorescence and all other surface contaminants, which may impair the adhesion of any Adex components.

3.1.2 Other substrate:

- 3.1.2.1 Inspect the substrate to verify that it is structurally sound and solid, ensuring there are no irregular voids or projections.
- 3.1.2.2 If the substrate requires leveling and/or reinforcement, the installation of Adex BASE COAT, NIVELEX, and/or NON-CEMENTITIOUS BASE with appropriate Fiberglass Reinforcing Mesh may be required. Follow the installation instructions included in respective technical data sheet, or contact an Adex Representative for recommended preparation procedures.
- 3.1.2.3 Interior drywall should be finished to a Level 4 finish (joints taped and fasteners spotted with joint compound) as per ASTM C 840 Standard Specification for Application and Finishing of Gypsum Board. Alternatively, drywall may be leveled using Adex NON-CEMENTITIOUS BASE and installing Adex UNIFIX mesh over all drywall joints.

3.2 Preparation

- 3.2.1 Ensure conduit pipes, cables and outlets are adequately covered before commencing with installation.
- 3.2.2 Adjacent finish work (such as brick, siding, concrete, etc.) must be protected from damage during the installation of Adex materials.

3.3 Mixing

3.3.1 Adex BASE COAT

- 3.3.1.1 Mix the contents of the Adex BASE COAT pail until thoroughly

blended. This will remove any settling of the contents due to storage.

- 3.3.1.2 In a clean container, combine Adex BASE COAT with fresh, lump-free Type GU Portland cement at a ratio of 1:1 by weight. Thoroughly mix to a homogenous state using a paddle mixer and electric drill. Add Portland cement in small increments to prevent lumps from occurring.

- 3.3.1.3 Allow mixture to set up for 5 minutes, then mix again to break the initial set.

- 3.3.1.4 Small amounts of water may be added to adjust the consistency. All other additives (antifreeze, accelerators, or otherwise) are strictly forbidden

3.3.2 Adex NIVELEX

- 3.3.2.1 Mix the contents of the Adex NIVELEX pail until thoroughly blended. This will remove any settling of the contents due to storage.

- 3.3.2.2 In a clean container, combine Adex NIVELEX with fresh, lump-free Type GU Portland cement at a ratio of 2:1 by weight. Thoroughly mix to a homogenous state using a paddle mixer and electric drill. Add Portland cement in small increments to prevent lumps from occurring.

- 3.3.2.3 Allow mixture to set up for 5 minutes, then mix again to break the initial set.

- 3.3.2.4 Small amounts of water may be added to adjust the consistency. All other additives (antifreeze, accelerators, or otherwise) are strictly forbidden

3.3.3 Adex NON-CEMENTITIOUS BASE

- 3.3.3.1 Mix the contents of the Adex NON-CEMENTITIOUS BASE pail until thoroughly blended. This will remove any settling of the contents due to storage.

- 3.3.3.2 A small quantity of clean, potable water may be added to the product to adjust its viscosity.

- 3.3.3.3 Refer to Technical Data Sheet 1.7, Adex NON-CEMENTITIOUS BASE, for information on tinting to specific Adex colour standards.

3.3.4 Adex PRIMEX NG primer;

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

- 3.3.4.2 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.

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

3.3.5 Adex Finish Coats and mortar products;

3.3.5.1 Refer to the individual Adex Technical Data Sheets for more information on mixing instructions for ADEX ADHESIVE MORTAR and ADEX finish coats.

3.4 Installation

3.4.1 Overview

3.4.1.1 BRIK-TEX is a multi-layered application with texture variations to create the depth of its effect. There is a large variety of Adex coating combinations that can be used together to achieve a unique look. See TABLE 2 at the end of this document for possible combinations.

3.4.2 Basecoat & Reinforcing Mesh

3.4.2.1 Apply Adex BASE COAT over the surface to a uniform thickness of approximately 1.6 mm (1/16"). Work horizontally or vertically in strips of 1016mm (40"), and immediately embed Adex STANDARD MESH into the wet basecoat.

3.4.2.2 Install an additional 300mm (12") long piece of STARTER/DETAIL MESH (at a 45°-degree angle) at the corners of all wall openings.

3.4.2.3 STANDARD MESH shall be double lapped not less than 200mm (8") at all corners and overlapped not less than 63mm (2.5") at mesh joints. Avoid wrinkles from forming in the mesh.

3.4.2.4 The final thickness of the basecoat shall be such that the REINFORCING MESH is fully embedded and not visible. Apply additional skim coats as required.

3.4.2.5 Allow the basecoat to dry before applying the primer and finish coat (24-hours).

3.4.3 Primer (as required)

3.4.3.1 Where specified, apply an even coat of Adex PRIMEX NG primer (tinted to the same colour as the finish coat) with a good-quality paintbrush, 10mm (3/8") nap roller, or sprayer.

3.4.3.2 Allow PRIMEX NG primer to dry before commencing with the first coat, base layer for BRIK-TEX.

3.4.4 Mortar Layer

3.4.4.1 Avoid applications in direct sunlight.

3.4.4.2 Avoid applying finish coat

at locations where caulking will be installed.

3.4.4.3 Adex Smooth Finish Coats;

a) Trowel-apply a tight coat of Adex Finish Coat, texture [ADEX ADHESIVE MORTAR / SONORA / NON-CEMENTITIOUS BASE] to a thickness not greater than the largest aggregate.

b) Apply the finish coat with a stainless steel trowel in a continuous fashion, maintaining a wet edge.

c) Levelling and texturing shall take place in one operation to give the Adex Finish Coat a uniform appearance.

d) Refer to the individual Adex Technical Data Sheet for specific installation instructions of each finish coat.

3.4.4.4 Adex Liquid Coats;

a) Specialty liquid coats, such as Adex CRYSTAL (metallic look) can be applied to create unique effects in the mortar layer (base layer).

a) Apply an even coat of Adex liquid coat [ex: CRYSTAL] with a good-quality 10mm (3/8") nap roller, or adequate paint sprayer setup.

b) Refer to the individual Adex Technical Data Sheet for specific liquid coat installation instructions and required number of application coats.

3.4.4.5 Allow all mortar layers to dry for minimum 24-hours prior to installation of BRIK-TEX adhesive templates.

3.4.5 BRIK-TEX template installation

3.4.5.1 Inspect the layer of the mortar layer and knock down or remove any high spots or ridges from the surface.

3.4.5.2 Each BRIK-TEX template size varies with its design and project requirements. Refer to the architectural renderings (if any) for pattern starting location(s) and relative pattern positioning to outside corners, windows, and system terminations.

3.4.5.3 Create a logical baseline that is based upon wall penetrations, such as the head of windows and doors. This will create the levelling line that extends horizontally across the wall. Install a chalk line here.

IMPORTANT: Do not start the templates at the base or at the perimeter edges.

3.4.5.4 From the horizontal baseline, measure the distance to the bottom of the wall and divide by the height of the template. This will tell you how many full height templates you will require and any remaining distance.

Adjust each template height so that a full height brick will be installed at the base of the wall.

- 3.4.5.5** At corners, install a vertical chalk line equal to the thickness of a one brick (varies). Repeat at the opposite corner. Measure the distance between the two corners and divide by the length of the BRIK-TEX template.

- a)** If the length is slightly less than a whole number of templates, divide the remaining distance by the number of templates and overlap them accordingly.

- b)** If the length is slightly greater than a whole number of templates, equally space each template to account for this distance and fill gaps with unused pieces of BRIK-TEX templates (cut and tape in place).

- 3.4.5.6** Do not apply BRIK-TEX templates in temperatures below 10°C (50°F) or above 32°C (90°F). Only apply BRIK-TEX templates at locations that will be finished in the same day.

- 3.4.5.7** Make sure the BRIK-TEX application area is free of dust, moisture, and other contaminants.

- 3.4.5.8** Remove the release paper from the back of the BRIK-TEX template and apply the stencil to the wall (adhesive side to the wall). Align the BRIK-TEX template to make sure it is level and in place correctly (aligned to your baselines) with full contact to the wall surface.

- 3.4.5.9** Using a trowel or a laminate roller, apply consistent pressure across the surface of the BRIK-TEX templates. Consistent adhesive contact is important to prevent bleeding of the top layer coating underneath the template.

- 3.4.5.10** Align and abut additional BRIK-TEX templates to each other. Templates are designed in a repeating pattern and are meant to connect seamlessly to each other, but gaps and overlaps may occur. Connect adjacent BRIK-TEX templates by taping stencils to each other.

- 3.4.5.11** At inside and outside corner locations, cut BRIK-TEX templates and use the excess cut pieces as the starting course for the adjacent return location.

3.4.6 Top Layer Finish Coat

- 3.4.6.1** Avoid applications in direct sunlight.

- 3.4.6.2** Avoid applying finish coat at locations where caulking will be installed.

- 3.4.6.3** Trowel-apply a tight coat of Adex Finish Coat, texture to a thickness not greater than the height of the installed BRIK-TEX templates. Apply the finish coat with a stainless steel trowel in a continuous fashion, maintaining a wet edge.

- 3.4.6.4** Avoid any build-up of finish on the top surface of the BRIK-TEX templates, as this may cause edge tearing when the templates are removed from the wall.

- 3.4.6.5** Float finish coat to a smooth appearance, taking care to minimize trowel lines. It is normally recommended to float vertically with up and down motions to create the desired effect. Avoid floating the material when leveling to prevent accidental movement of the templates.

- 3.4.6.6** Prior to pulling the BRIK-TEX templates, install any liquid coat shading (Adex REVIFLEX) to alter the uniform appearance of the BRIK-TEX.

- 3.4.6.7** Before removing templates, the Finish Coat shall cure a minimum of 24 hours. Extended drying times may be required depending upon temperature, relative humidity, and template thickness. Pulling templates too soon may result in tearing of the BRIK-TEX edges.

- 3.4.6.8** At areas where finish coat has seeped underneath the templates, use a small paint brush (and the mortar layer coating) to touch up the areas.

3.5 Protection

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

3.6 Clean Up

- 3.6.1** After completion, remove waste and leftover materials from job site.

- 3.6.2** 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.

Table 1:

MODEL	NAME	SQ.FT. PER BOX	
		0.023	0.060
UT-2S	RUNNINGBOND	450	300
UT-3S	BORDER BRICK	300	300
UT-16S	SMALL NEW YORK BLOCK	450	300
UT-19S	8X8 TILE	450	N/A
UT-23S	RECYCLED WALL BRICK	450	300
UT-24SC	SOLDIER COURSE BRICK 3/8"	300	300
UT-24S	STANDARD BRICK 3/8"	450	300
UT-25S	CINDER BLOCK	400	N/A
UT-26SC	SOLDIER COURSE BRICK 1/2"	300	300
UT-26S	STANDARD BRICK 1/2"	450	300
UT-27S	LARGE CINDER BLOCK	400	N/A

Table 2:

EXAMPLE	PRIMER (OPTIONAL)	MORTAR LAYER	BRICK LAYER (WITH TEMPLATE)
1	PRIMEX NG	ADHESIVE MORTAR (1-TO-2 COATS)	CHOOSE ONE: SANDED MEDARO MONACO CLASSIX 1.5 MEDIUM 16 PLASTENE MICATEX
2	PRIMEX NG	NON-CEMENTITIOUS BASE (1-TO-2 COATS)	
3	PRIMEX NG	SONORA (2 COATS)	

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