This document contains information made available to specialised designers, architects, engineers or other professionals, as a guide only, to help them prepare a technical specification. Specialised designers, architects, engineers or other professionals bear the complete responsibility of evaluating usability, conformity and relevance of the information in view of the particular project and they commit to verify all technical data in the present document in order to assess their suitability in the project. When such use is done by specialised designers, architects, engineers or other professionals, they take full responsibility for the information as if it were their own. Use by a non-specialised person is strongly advised against.

#### 1 - DESCRIPTION

1.1 The ADEX GRAPHEXCOat application is a highly durable, impact and peck-resistant coating solution installed over new or existing damaged EIFS applications for the ultimate in protection against woodpeckers and other pests.

## 2 - JOB CONDITIONS

- 2.1.1 Ambient and surface temperatures shall be minimum 5°C (41°F) during installation.
- 2.1.2 When installing in climatic temperatures below 5°C (41°F), tarping, heating and ventilation shall be provided to maintain proper installation temperatures.
- 2.1.3 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.
- 2.1.4 Installation of Adex materials shall be coordinated with other construction trades.

## 3 - WARRANTY

3.1 Upon request, the manufacturer shall provide a (10) ten-year limited warranty, stating that materials conform to specifications and are free of manufacturing defects or woodpecker damage.

## 4 - PRODUCTS

- **4.1 ADEX GRAPHEX**COat-A: a graphenereinforced polymer-based compound, containing large aggregates, mixed with Type GU Portland cement.
- 4.2 ADEX GRAPHEXCOat-B: a graphenereinforced polymer-based skim coat mixed with Type GU Portland cement.
- **4.3** Portland cement: Shall be lump-free, Type GU (Type 10) Portland cement conforming to CSA-A3001 standards.
- **4.4** Water: Shall be clean, potable, and free of sediment.

## 5 - INSPECTION

- **5.1 ADEX GRAPHEX**COat can be installed over the following substrates requiring inspection:
  - a) New installations of ADEX EIFS including all Standard, Cavity Wall, and Alternate Systems, and
  - b) Existing EIFS (Exterior insulation and Finish Systems) lamina surfaces.
- **5.2** Inspect the substrate to verify that it is structurally sound and solid, ensuring there are no irregular voids or projections.
- **5.3** Ensure the surface to receive the **ADEX GRAPHEX**COat is clean and dry.

## 6 - PREPARATION

- **6.1** Ensure conduit pipes, cables and outlets are adequately covered before commencing with installation.
- 6.2 Adjacent finish work (such as brick, siding, concrete, etc.) must be protected from damage during the installation of ADEX materials.
- 6.3 Over new EIFS basecoat:
  - **6.3.1** Ensure the ADEX EIFS basecoat layer with reinforced mesh is fully dried (typically 24 hours under normal weather conditions).
- 6.4 Over Existing EIFS surfaces:
  - **6.4.1** Fill any voids in the EPS insulation with a compatible spray-foam. Once cured, cut back the spray-foam even with the surface of the EIFS lamina.
  - **6.4.2** It is necessary to repair areas with new reinforcing mesh and basecoat prior to the installation of **ADEX GRAPHEX**COat.

## 7 - MIXING

- 7.1 ADEX GRAPHEXCOat-A (First coat)
  7.1.1 Mix the contents of the ADEX
  GRAPHEXCOat pail until thoroughly
  blended. This will remove any settling
  of the contents due to storage.
  - 7.1.2 For ease of mixing, split the pail of ADEX GRAPHEXCOat-A into two (2) equal portions. Use only clean containers for mixing.
  - 7.1.3 Combine ADEX GRAPHEXCOat-A



- 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.
- 7.1.4 Allow mixture to set up for 5 minutes, then mix again to break the initial set.
- 7.1.5 Small amounts of water (up to 1,500ml (6 cups)) may be added to adjust the consistency. All other additives (antifreeze, accelerators, or otherwise) are strictly forbidden. Do not overwater.
- 7.2 ADEX GRAPHEXCOat-B (second coat)
  7.2.1 Mix the contents of the ADEX
  GRAPHEXCOat pail until thoroughly
  blended. This will remove any settling
  of the contents due to storage.
  - **7.2.2** For ease of mixing, split the pail of **ADEX GRAPHEX**COat-B into two (2) equal portions. Use only clean containers for mixing.
  - 7.2.3 Combine ADEX GRAPHEXCOat-B 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.
  - **7.2.4** Allow mixture to set up for 5 minutes, then mix again to break the initial set.
  - 7.2.5 Small amounts of water (up to 1,000ml 4 cups)) may be added to adjust the consistency. All other additives (antifreeze, accelerators, or otherwise) are strictly forbidden. Do not overwater.

## 8 - INSTALLATION

#### 8.1 As part of an new EIFS installation:

- **8.1.1** Install the ADEX system as specified up to the ADEX BASECOAT and reinforcing mesh layer.
- 8.1.2 First Coat GRAPHEXCOat-A
  - a) Using a flat-edge metal trowel, apply ADEX GRAPHEXCOat-A to the surface of the ADEX BASECOAT at a thickness of approximately 2.5mm (3/32").
  - b) Holding your trowel at a low-angle, smooth out the basecoat, using the largest aggregate in the ADEX GRAPHEXCOAT-A to assist with achieving the proper thickness.
  - c) Allow the ADEX GRAPHEXCOAT-A to dry before applying the Second Coat of ADEX GRAPHEXCOAT-B.
- 8.1.3 Second Coat-GRAPHEXCOat-B

- a) Inspect the ADEX GRAPHEXCOat-A installation and rasp down any irregular surfaces or high spots.
- b) With a flat-edge metal trowel, apply a 1.6mm (1/16") uniform layer of ADEX GRAPHEXCOAT-B over the entire first coat application and smooth the surface. Take care to fill any voids left behind by the ADEX GRAPHEXCOAT-A installation.
- c) Once dry, install additional skim coat layers of ADEX GRAPHEXCOat-B as required.
- d) Allow the **ADEX GRAPHEX**COat-B to dry before applying any additional base coat layers or continuing on to the primer and finish coat (24-hours).
- e) The final dry-film thickness of the 2-layers of ADEX GRAPHEXCOat must be minimum 2.5mm (3/32").

# 8.2 For restoration of an existing EIFS application:

- 8.2.1 Determine that there are no current birds nesting in the existing damaged EIFS. If there are, consult the Migratory Birds Convention Act and contact your local Humane Society for assistance on when to complete repairs.
- 8.2.2 Repair all damaged areas with new reinforcing mesh and basecoat prior to the installation of ADEX GRAPHEXCOat.
  a)Inspect the damaged area as to depth of penetration.
  - b)If penetration has reached the substrate and damage to substrate and WRB is apparent, cut back penetrated area and undertake the necessary replacement of exterior sheathing.
  - c)Repair and tie-in to the existing WRB with compatible materials, using proper joint treatment between new and old sheathing.
  - d)Install new insulation board with the proper sizing and thickness of Adex EPS-GD using a compatible attachment method. For smaller penetrations (less than 38mm [1.5"]) with no WRB membrane damage, it is acceptable to use a compatible spray foam to fill the penetration.
  - e)Rasp the insulation, and apply Adex Basecoat and Adex Standard Mesh with a minimum 51mm (2") overlap to the existing system.
  - f)Allow for Adex Basecoat to cure for 24 hrs.
- **8.2.3** The damaged area is now ready to accept the bird-resistant **GRAPHEX**COat installation.



- **8.2.4** For additional information on EIFS Repairs, please consult the Adex Maintenance Guide.
- 8.2.5 First Coat GRAPHEXCOat-A
  - a) Using a flat-edge metal trowel, apply **ADEX GRAPHEX**COat-A to the surface of the existing lamina at a thickness of approximately 2.5mm (3/32").
  - b) Holding your trowel at a low-angle, smooth out the basecoat, using the largest aggregate in the ADEX GRAPHEXCOAT-A to assist with achieving the proper thickness.
  - c) Allow the ADEX GRAPHEXCOat-A to dry before applying the Second Coat of ADEX GRAPHEXCOat-B.
- 8.2.6 Second Coat- GRAPHEXCOat-B
  - a) Inspect the ADEX GRAPHEXCOat-A installation and rasp down any irregular surfaces or high spots.
  - b) With a flat-edge metal trowel, apply a 1.6mm (1/16") uniform layer of ADEX GRAPHEXCOAT-B over the entire first coat application and smooth the surface. Take care to fill any voids left behind by the ADEX GRAPHEXCOAT-A installation.
  - c) Once dry, install additional skim coat layers of ADEX GRAPHEXCOat-B as required.
  - d) Allow the **ADEX GRAPHEX**COat-B to dry before applying any additional base coat layers or continuing on to the primer and finish coat (24-hours)
  - e) The final dry-film thickness of the 2-layers of ADEX GRAPHEXCOat must be minimum 2.5mm (3/32").
- **8.2.7** Install the lamina (Primer and Finish coat) as specified.

#### 9 - PROTECTION

- **9.1** Ensure that the general contractor protects all work against moisture infiltration and other damages by installing the necessary flashing and caulking in a timely manner.
- 9.2 Provide protection against dirt, moisture, high humidity, and freezing temperatures until materials are fully dry.

## 10 - CLEAN UP

- **10.1** After completion, remove waste and leftover materials (used in this Section) from the job site.
- 10.2 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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