

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- .1 Conform to requirements of General Conditions and Division 1.

1.2 SCOPE OF WORK

- .1 Provide all labour, materials and necessary equipment to supply and install **Durex® “Lite Coat” Stucco System** where shown on the Architectural drawings and as specified.

1.3 RELATED WORK SPECIFIED ELSEWHERE

- .1 Concrete walls: Section 03300
.2 Masonry walls: Section 04200

NOTE: Add other trades which are related to **Durex® “Lite Coat” Stucco System** work but which are executed by other Trades.

1.4 SAMPLES

- .1 (Prior to application of mock-up), submit duplicate 300 mm x 300 mm (12” x 12”) samples of (each) colour and texture of the specified coating system in accordance with requirements specified in Division 1.

NOTE: Include (Prior to application of mock-up) only if mock-up is required. Correlate with Article 1.10. Include (each) if more than one colour and/or texture is required for project.

1.5 TEST REPORTS

- .1 Submit products data including certified copies of test reports verifying **Durex® “Lite Coat” Stucco System** applied to substrate as constructed on project will meet or exceed requirements of Specifications.

1.6 MAINTENANCE DATA

- .1 Provide maintenance data for Stucco system for incorporation into Maintenance Manual specified in Division 1.

1.7 QUALIFICATIONS OF APPLICATOR

- .1 Work of this Trade shall be executed by qualified applicator approved by **Durabond Products Limited**.

Applicator shall have been trained in the most recent application procedures and shall have minimum 5 years proven satisfactory experience in this type of work, having proper equipment and skilled personnel to expediently complete work of this Trade in an efficient and very best workmanlike manner.

1.8 MANUFACTURER’S SUPERVISION AND INSPECTION

- .1 Arrange for **Durabond Products Limited** to have a qualified technical representative visit site prior to commencement of work to discuss with General Contractor, Applicator and Architect, the application procedures to be used and to analyse conditions of surfaces to be coated, in order that alternative recommendations may be made to Architect should adverse conditions exist.

- .2 Also arrange for the qualified technical representative to visit site at regular intervals during application and upon completion of work to ensure adherence to specifications and to check quality of completed work.
- .3 The above supervision shall be at no extra cost to Owner.

1.9 **JOB MOCK-UP**

- .1 When directed, apply 3 m x 3 m (10' x 10') of (each colour and/or texture of coating system where applicable in mock-up area designated by Architect.
NOTE: *Revise size of mock-up to suit Architect's requirements. Also, more than one mock-up may be required if more than one coating colour and/or texture is required for project.*
- .2 Apply samples of finish required in presence of Architect, General Contractor and **Durabond's** representative. Apply mock-up using correct material, number of coats, colour, texture and degree of gloss required.
- .3 Maintain mock-up until completion of work. Approved mock-up shall serve as a standard for similar work throughout project. Refinish work which does not match approved mock-up.

1.10 **DELIVERY**

- .1 Deliver all required materials to the job site in original unopened containers with all identifying labels and markers clearly visible and intact. Upon delivery, inspect materials for damages and advise **Durabond Products Limited** in writing of any unacceptable materials.

1.11 **SPECIAL STORAGE AND PROTECTION**

- .1 Store materials in a dry, vented, waterproof location, stacked off the ground, out of direct sunlight and other detrimental conditions. Store liquid materials at ambient temperatures above 5°C and below 35°C. Protect all materials from freezing.
- .2 Keep thinner soaked rags and other similar combustible materials in closed metal containers containing water, to prevent spontaneous combustion and remove them from job site at end of each work day.
- .3 If coatings have been applied, provide protective coverings to protect freshly applied coatings from damage due to inclement weather until coatings have fully set and cured.
- .4 Ensure that all cappings and flashings have been immediately installed by others after completion of the **Durex® "Lite Coat" Stucco System**, unless temporary protection has been provided by others. If cappings and flashings or temporary protection have not been provided, advise Architect and General Contractor in writing.

1.12 **ENVIRONMENTAL CONDITIONS**

- .1 Do not proceed with the application of base coat and/or finish coat at ambient air temperatures below 5°C or above 35°C. Avoid coating surfaces directly exposed to hot sun or on surfaces where condensation has or will form due to presence of high humidity and lack of adequate ventilation.
- .2 When necessary, provide temporary enclosures for exterior work and ensure that temporary heat is being provided in the area of work to maintain the required ambient air temperature prior to, during application and for minimum 24 hours after application of coating.
NOTE: *As the above work can be costly, carefully co-ordinate to determine whether or not the General Contractor is to provide temporary enclosure and heat.*

- .3 Do not apply materials to wet, frozen nor frosted surfaces.
- .4 Do not proceed with applications of materials immediately, prior to, during or after inclement conditions, nor if wet weather is anticipated within 24 hours after application.
- .5 Do not apply the finish coat in areas where dust is being generated.
- .6 If required, ensure that adequate controlled ventilation, heat and light is provided by General Contractor during application and drying period of interior work.
- .7 Proceed with work only when surfaces and conditions are satisfactory for production of a first class application.
- .8 Protect applied coating from rapid evaporation during dry and hot weather.
Consult **Durabond Products Limited** for recommendations should adverse conditions exist.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 All components of **Durex® “Lite Coat” Stucco System** shall be manufactured/supplied by **Durabond Products Limited**, 55 Underwriters Road, Toronto, Ontario, Canada M1R 3B4, Tel: (416) 759-4474. No substitutions or addition of other materials shall be permitted.
- .2 **Patching Compound:** Substrate patching compound shall be **Durex® Dur-A-Patch** mixed in strict accordance with **Durabond’s** printed instructions.
***NOTE:** Generally, patching compound would be required for patching poor concrete work, i.e. honeycombs, etc. and for patching minor damages in masonry work. For patching of large areas of concrete and masonry, consult **Durabond Products Limited** for recommendations.*
- .3 **Trim/Accessories:**
All trim, expansion and control joints, casing beads and corner beads shall be vinyl extrusions or galvanized with a minimum ground of 6.4 mm (1/4”).
- .4 **Scratch Coat and Base Coat:**
Both scratch coat and base coat shall be **Durex® Dryplast Medium** mixed with potable water or **Durex® Uniplast Medium** mixed with **Durex® Acrylic Resin Bond** in strict accordance with **Durabond’s** printed instructions.
***NOTE:** Generally, scratch coat required on masonry walls only. Check with **Durabond Products Limited** for use of scratch coat on concrete surfaces. Throughout this Specification, if the **Durex® “Lite Coat”** is to be applied over an acceptable concrete surface, delete reference to **“Scratch Coat”**.*
- .5 **Primer Coat:**
Primer coat shall be **Durex® Brush Coat** colour number _____.
***NOTE:** **Durex® Brush Coat** shall be the same colour number as **Durex® Finish Coat**.*
- .6 **Finish Coat:**
Finish coat shall be **Durex® Architectural Coating** _____,
Colour number _____.
***NOTE:** Refer to Product Data Sheets for selection of **Finish Coat** which would be desired for the project.*

- .7 **Sealant:**
Low modulus sealant, as recommended by **Durabond Products Limited**.
- .8 **Surface Sealer (Optional):**
Surface sealer shall be **Durex® Wall Seal 15**, manufactured by **Durabond Products Limited**.

2.2 MIXES

- .1 Perform all mixing under conditions as set forth in Article 1.13: Environmental Conditions.
- .2 Prepare and mix patching compound, primer,(scratch and) base and finish coats in strict accordance with Durabond's written instructions to obtain a homogeneous consistency of mixture. Other than those specified by **Durabond**, do not add any other additives, rapid binders, antifreeze, accelerators, fillers or pigments to the mixtures without written approval from **Durabond Products Limited**.
- .3 Mix patching compound in accordance with the following formula by weight:

Durex® Dur-A-Patch	1 bag
Durex® Dur-A-Patch Liquid Additive	3.5 - 4 litres
- 4 Pour the **Durex® Dur-A-Patch Liquid Additive** into an empty clean mixing container. While under slow mixing action add the **Durex® Dur-A-Patch** in the required mixing proportions. Mix well until the mixture is free of lumps. If required, adjust consistency of the mix with an additional amount of **Durex® Dur-A-Patch Liquid Additive**.
- .5 Let mixed patching compound stand for a few minutes until it begins initial stiffening. Re-temper and use. Discard all patching compound which have begun to stiffen for a second time.
- .6 Mix both scratch coat and base coats in accordance with the following formula by weight:

Durex® Dryplast Grey Medium	1 bag
Potable Water	5 litres

OR

Durex® Uniplast Medium	1 bag
Durex® Acrylic Resin Bond	4-5 litres
- .7 Pour the water into an empty clean mixing container. While under slow mixing action add the **Durex® Dryplast Medium** in the required mixing proportions. Mix well until the mixture is free of lumps. Do not over mix or use excessive mixing speed.

OR
- .8 Pour **Durex® Acrylic Resin Bond** into an empty clean mixing container. While under slow mixing action, add the **Durex® Uniplast Medium** in the required mixing proportions. Mix well until the mixture is free of lumps. Do not over mix or use excessive mixing speed.
- .9 Include mixing **Durex® Uniplast Base Coat** Let mixed material stand for a few minutes until they begin initial stiffening. Mix only enough material which can be used within 45 minutes. Re-temper and use. Discard all material which have begun to stiffen for a second time.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Examine surfaces to receive the **Durex® “Lite Coat” Stucco System** for defects that will adversely affect execution and quality of work.
- .2 Ensure substrate surfaces, including (each) applied (scratch coat and) base coat are dry, solid and sound, free of weak and powdery surfaces, free from ice, snow and frost, oil, grease, releasing agents and other deleterious materials detrimental to a positive bond.
NOTE: *Deteriorating, weak, powdering or flaking surfaces may require further preparation work prior to installation of the **Durex® “Lite Coat” Stucco System**. Check with **Durabond Products Limited** for questionable substrate conditions.*
- .3 Ensure substrates have no irregularities greater than 3.2 mm in 2430 mm (1/8” in 8’-0”) in plane and inplumbness.
- .4 Report in writing to Architect all adverse conditions which will be detrimental to work of this Trade.
- .5 Do not start work until unsatisfactory conditions have been corrected.
- .6 Commencement of work shall indicate acceptance of substrate conditions.

3.2 PREPARATION

- .1 Where necessary, thoroughly clean and wash (existing) surfaces, including (each) applied (scratch coat and) base coat, (and including existing coated surfaces) by wire brushing or other approved methods to remove all dirt, dust, grease, oil, laitance, loose coatings and other contaminants detrimental to permanent of (new) applied coating.
NOTE: *Include reference to “existing” and “new” for retrofit projects.*
- .2 Where necessary, mask all surrounding surfaces to provide neat, clean and true juncture lines with no over-spray on surrounding surfaces.
- .3 Co-operate and co-ordinate with other trades to ensure that penetrations in the substrate have been provided by other trades before applying coating system.
- .4 Advise other trades that fixtures and fittings should not be installed on surfaces to be coated before work of this Trade has been completed.
- .5 If required, wet existing masonry prior to the application of the scratch coat.
NOTE: *Use above paragraph only if applicable to project.*

3.3 APPLICATION

- .1 Apply **Durex® “Lite Coat” Stucco System** in strict accordance with approved mock-up, **Durabond’s** printed instructions.
- .2 **Trim Accessories:**
NOTE: *Include this Article if applicable to project. Trim accessories have a minimum ground of 6.4 mm (1/4”).*
 - .1 Install all trim accessories prior to installation of the scratch coat.
 - .2 Install all trim uniformly throughout the entire area which is to be coated.
 - .3 Install trim straight, level and plumb to a tolerance of not more than 3.2mm in 3.0m (1/8” in 10’-0”).

- .4 Discard all trim units which are damaged in any way.
- .5 Secure trim at not more than 300 mm (12") o.c.
- .6 Install casing beads at all terminations, around all openings and at all control joints and leave a 12.7 mm (1/2") space for caulking.

.3 **Expansion/Control Joints:**

- .1 Install expansion joints in alignment with building expansion joints.
- .2 Install control joints at all locations where dissimilar substrates meet.
- .3 Install control joints at all locations of maximum stress (such as corners of openings), in the direction as shown on drawings.
- .4 Install expansion joints at the lesser of each floor horizontally at the level of the underside of ceiling, or spaced at not more than 3.0 m (10'-0") o.c. vertically.
- .5 Install control joints vertically, spaced at not more than 6.0m (20' - 0") o.c. horizontally.
NOTE: Use paragraphs 3.3.3, 3.3.4, and 3.3.5 for masonry substrates only.

.4 **Patching Compound:**

- .1 Apply **Durex® Dur-A-Patch Liquid Additive**, undiluted, to all substrates which are to receive the patching compound. While the acrylic resin bond is still tacky trowel apply the compound mixture, applying sufficient pressure to ensure full bond with the substrate. The maximum thickness per lift shall not exceed 6.4 mm (1/4").
- .2 Where more than one lift of patching compound may be required, allow for a minimum 24 curing time hours between lifts.

.5 **Scratch Coat:**

NOTE: The primer and finish coats require a straight, smooth and even surface; thus careful attention at this stage of the application is most important to complete the final application of the finish coat. 75% of curing occurs in the first 7 days from initial application. In this period application of sufficient moisture is most important to avoid shrinkage and subsequent cracking.

NOTE: Generally, scratch coat required on masonry surfaces only.

- .1 Apply scratch coat after trim accessories have been securely fastened in place.
- .2 On masonry surfaces with deep joints (raked), apply scratch coat to fill only the joints. Allow minimum 24 hours to cure before applying a full scratch coat over the entire masonry surface.
NOTE: The final depth of the base coat is determined by the thickness required to provide a proper surface for the primer and finish coat. For walls where the depth of base coat would exceed 9 mm (3/8") another wall system should be used.
- .3 Firmly apply scratch coat over the trim accessories. Scratch coat shall not be less than 3.2 mm (1/8") thick, uniformly and forcefully applied to fully fill all voids and ensure full bond with the substrate and to sufficiently cover and embed the trim accessories.
- .4 Rake the surface of the newly applied scratch coat with a plaster rake to form fairly uniform indentations which will act as a key surface for the base coat.
- .5 Allow minimum 3 days for curing and drying.

.6 **Base Coat:**

- .1 During hot weather, if the surface is exceptionally dry, lightly dampen the surface with a fog mist of clean potable water. Do not saturate with water as it will impair the bonding of the base coat.

- .2 Install a section of detail reinforcing fabric, 225 mm x 400 mm (9" x 16") at corners of all openings in masonry walls where a joint has not been installed.
NOTE: Use above paragraph for masonry walls only.
- .3 Trowel apply the base coat applying sufficient force to ensure full bond with the substrate surface that all voids in the reinforcing fabric are filled.
- .4 Use a straight edge tool to darby the surface and bring it to a straight, even and true surface.
- .5 Total thickness of the base coat shall not exceed 9 mm (3/8"). Total thickness per lift shall not exceed 6 mm (1/4").
- .6 When the base coat has taken initial set, use a wood or sponge float and work the surface with light circular motions to remove all high points and to fill low points.
- .7 Final surface shall be smooth, straight and true to a tolerance of not more than 3.2 mm in 3 m (1/8" in 10'-0"). Surface shall be free of trowel marks, irregularities and visible mesh pattern.
- .8 Allow minimum 3 days for curing and drying.

.7 **Finish Coat Primer:**

- .1 Apply primer with high pile roller at the rate of 2.8 litres/m² or 600 ft²/pail.
- .2 Evenly apply primer throughout. Substrate shall not be visible through the applied primer.
- .3 Avoid excessive build-up in any one area.
- .4 If required, re-coat when first coat is dry to the touch and in any event not earlier than 2 hours after initial application.
- .5 Allow minimum 4 hours prior to application of finish coat.

.8 **Finish Coat:**

- .1 Apply final texture coat within 3 days after application of primer coat. Longer periods may be scheduled between operations provided that the primed surface is kept clean and in good condition.
- .2 Apply final texture finish in strict accordance with **Durabond's** printed instructions for the selected finish.
- .3 Final texture finish and colour shall match the approved site sample.

3.4 CAULKING

- .1 Caulk all expansion and control joints and all coating system terminations, including below grade terminations, with sealant. Apply sealant in strict accordance with sealant manufacturer's printed instructions. Sealant should be applied to base coat only and sealant primer should be used prior to application of sealant.

3.5 SPECIAL CLEANING

- .1 Clean off all spotting and blemishes from surfaces which are not intended to receive coating and leave such surfaces in their original condition.
- .2 Entirely reinstate, at this Trade's own expense, any surface not to be coated, but soiled and attributable to this Trade due to spillage, mixing of material or any other cause.