DRYSULATION SYSTEM

An Exterior Wall Insulation and Finish System

DUK 950

Drysulation System
Application Instructions

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Stucco Build® DUK601
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TerraNeo® DUK481
Ultrafil DUK483
Weatherlastic™ Finishes DUK418

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I. General Installation Requirements

A. Project Conditions

1. Storage

   Maximum storage temperature shall not exceed 38°C (100°F). Minimum storage temperature shall not be less than 4°C (40°F) with the exception of the following products:
   a. Demandit, Revyvit: 7°C (45°F).
   b. Ameristone, TerraNeo and Lymestone: 10°C (50°F).
   c. Custom Brick Finish: refer to Custom Brick Polymer Specification, DUK151.
   d. Dryvit EPS (white) and Dryvit EPS LL (grey): store out of direct sunlight and away from highly flammable substances.
   e. For other products, refer to specific product data sheets.

2. Application

   a. Application of wet materials shall not take place during inclement weather unless appropriate protection is provided.
   b. Protect materials from inclement weather until they are completely dry.
   c. Air and surface temperatures must be 4ºC (40ºF) or above and must remain so for a minimum of 24 hours or until dry at the time of Dryvit product application with the exception of the following products:
      1). Demandit, Revyvit: 7°C (45°F).
      2). Ameristone, TerraNeo and Lymestone: 10°C (50°F).
      3). Custom Brick Finish: refer to Custom Brick Polymer Specification, DUK151.
      4). For other products, refer to specific product data sheets.
      5). These temperatures shall be maintained with adequate air ventilation and circulation for a minimum of 24 hours (48 hours for Ameristone, TerraNeo and Lymestone) thereafter, or until the products are completely dry. Cool, humid conditions may require longer drying times.

B. Inspection of Substrate

1. Acceptable substrates for application of the Dryvit Drysulation System are listed in the Dryvit Drysulation System Sheet DUK 912. For further information consult Dryvit UK.
2. The substrate must be clean, dry, structurally sound, free of loose material, voids, projections, hot spots, release agents, coatings, or other materials that may affect adhesion.
3. Wall sheathing must be securely fastened as per contract documents and installed in accordance with manufacturers requirements.
4. There shall be no planar irregularities greater than 12 mm within any 3 m radius. Any irregularities over this limit will require re-profiling using Stucco Build. Refer to table in section IV.B.
5. The substrate attachment method must comply with all contract documents.

C. Flashing at System Terminations

1. General

   Ensure that flashing is installed in accordance with applicable code requirements and the contract documents. As a minimum, opening preparation is required as shown in the Drysulation System Installation Details, DUK960.

2. Transition at Roof Lines

   a. Ensure the roof has positive drainage, i.e. all runoff shall be directed to the exterior and away from the structure.
   b. Roof flashing (by others) shall be installed in accordance with industry guidelines, manufacturer's instructions and contract documents.
   c. Runoff diverters (i.e. kickouts, crickets and saddles) (by others) shall be installed in accordance with industry guidelines, manufacturer's instructions and contract documents. Particular attention must be paid to the eaves/chimney intersections and sloped roof/wall intersections. Refer to the Dryvit Drysulation System Installation Details, DUK960.
   d. Hold system a minimum of 200 mm above flat roofs.

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3. Openings

    a. Heads, jambs and cills of all openings on sheathed frame substrates shall be prepared with AquaFlash or other approved flashing material selected by the design professional prior to window/door, mechanical equipment, or other component installation. For proper application, refer to the Dryvit Drysulation System Installation Details, DUK960.These products may also be used on terminations for solid substrates, refer to Dryvit UK.
    b. Continuous flashing at heads of openings as indicated in contract documents. **NOTE: For windows or doors that do not have integral flashing, a field-applied flashing shall be installed (by others) in accordance with industry guidelines, manufacturer's instructions and contract documents. Refer to the Dryvit Drysulation System Installation Details, DUK960.**
    c. Individual windows that are ganged to make multiple units require that the heads be continuously flashed and the joints between the units must be fully sealed.

4. Roof junctions and decks

    a. Wood decks and roof junctions shall be properly flashed prior to system application. See the Dryvit Drysulation System Installation Details, DUK960.
    b. Verify that the system terminates above poured decks, patios, landings, etc. and that they are properly sloped and waterproofed to direct water away from the walls.

5. Utilities

    a. Provisions must be made to ensure that the system terminates properly at lighting fixtures, electrical outlets, hose bibs, dryer vents, satellite dishes etc. Refer to the Dryvit Drysulation System Installation Details, DUK960.

6. Grade Level Terminations

    a. Terminate system a minimum of 150 mm above finished grade. Refer to the Dryvit Drysulation System Installation Details, DUK960 for above and below grade termination guidance.

D. Sealants/Seals

1. Dryvit materials shall be completely dry prior to installation of sealant materials (typically 48-72 hours). Humid or cool conditions may require longer drying times.
2. For compressible seals refer to manufacturers installation instructions.
3. Substrate to receive frame seals should be free of contamination and installed in accordance with manufacturers installation instructions.

E. Wind Loading

1. Prior to system installation, the maximum design wind pressure (load) for the structure must be verified along with the design engineers' proposed safety factors in accordance with UK national regulations. From this the design wind load in accordance with BS EN1991-1-4:2005 is determined and requires the design engineer's approval before the commencement of the installation.

    Notify the Main Contractor and or Architect and/or Owner of all discrepancies. Do not proceed until all unsatisfactory conditions have been corrected.

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II. Materials Required for Completing Installation of the Drysulation System

A. Materials Supplied by Dryvit UK Ltd.

1. AquaFlash and AquaFlash Mesh (when required)
2. Backstop NT Smooth and NT Texture (when required)
3. Starter track, termination, movement joint and corner beads etc
4. Dryhesive Plus
5. ADEPS (when required)
6. AP Adhesive (when required)
7. Rapidry DM 35-50, Rapidry DM 50-75, RapidPatch
8. Dryflex
9. Dryvit Square Edge Expanded Polystyrene Insulation Board: (White) EN13163:2001 Euroclass E (Grade 70E)
10. Dryvit LL Expanded Polystyrene Insulation Board: (low lambda grey) EN13163:2001 Euroclass E (Grade EPS 70)
11. Mineral wool fire break: HD Slab EN13162 Euroclass A1
12. Dryvit Expanding Foam: fire retardant expanding foam
13. Primus M
14. Dryvit reinforcing meshes Standard Mesh®, Standard Plus Mesh, Intermediate Mesh, Panzer® 15, Panzer 20, Corner, and Detail Mesh.
15. Dryvit primers: Color Prime, Primer with Sand and Prymit.
16. Dryvit finishes; PMR, FD PMR, PMRB, HDP, Brick Effect, Custom Brick, Dash Receiver and Dash Aggregate, Ameristone, Stone Mist, TerraNeo, Lymestone, Weatherlastic, and Reflectit,
17. Dryvit coatings: Demandit, HDP Water-Repellent Paint, Silstar, Revyvit, Weatherlastic Smooth, Tuscan Glaze and SealClear

NOTE: Materials listed above are those contained or referenced in the Drysulation NBS Working Specification, DUK970 Typically the project specification will identify the specific materials necessary to complete application.

For product coverage rates please refer to the individual product data sheets.

B. Materials Supplied by Others

1. Clean Potable Water
2. Joint Sealant
3. Compressible polyurethane joint sealing tape – Contact Dryvit for information

III. Mixing Instructions

A. General

1. No additives such as sand, aggregates, rapid binders, anti-freeze, accelerators, etc. shall be added to any Dryvit materials under any circumstances. **Such additives will adversely affect the performance of the material and void all warranties.**

B. Opening Preparation Materials

1. AquaFlash (when required)

    a. Open the bucket with a utility knife or lid-off.
    b. AquaFlash is ready to use after an initial spin-up using a Dryvit recommended mixing paddle or equivalent mixing blade, powered by a slow speed drill. Do not add cement or any other additives.

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C. Air and moisture barrier (when required)

1. Backstop NT

    a. Open the bucket with a utility knife or lid-off.
    b. Backstop NT is ready to use after an initial spin-up using a Dryvit recommended mixing paddle or equivalent mixing blade, powered by a slow speed drill. Do not add cement or any other additives.

D. Adhesive and Base Coat Material

1. Rapidry DM 35-50 & Rapidry DM 50-75

    a. One bag of Rapidry DM 50-75 will produce approximately 19 litres of Rapidry DM mixture. To a clean minimum 20 litre size pail, add 6.6 - 7.6 litres of clean potable water.
    b. Add the Rapidry DM slowly while constantly mixing with a Dryvit recommended mixing paddle or equivalent mixing blade, powered by a slow speed drill.
    c. Thoroughly mix until uniformly wetted, adjusting consistency with a small amount of water or Rapidry DM.
    d. Let set for 5 minutes. Retemper, adding a small amount of water if necessary. Material must be free of lumps before using.

E. Adhesive Only

1. Dryhesive Plus

    a. One 25 kg bag of Dryhesive Plus will produce approximately 19 litres of adhesive mixture. To a clean 20 litre pail, add 5.5 – 6.0 litres of clean potable water.
    b. Add the Dryhesive Plus slowly while constantly mixing with a Dryvit recommended mixing paddle or equivalent mixing blade, powered by a slow speed drill.
    c. Slowly add powder and using a slow speed drill and paddle mix for 5 minutes until homogenous. Allow to stand for 5 minutes then re-mix, adding a small amount of water if required. Note: The adhesive may stiffen on standing. Re-mix the product to regain a workable consistency, but DO NOT add more water. Material must be free of lumps before using.

2. ADEPS

    a. No mixing is required although up to 0.5 litres may be added to improve trowelability and drying time.

3. AP Adhesive

    a. Supplied in a ready to use tube. Insert into application gun and cut the smallest opening possible in the spout. Apply as required.

F. Base Coat Material Only

1. Primus M

    d. One 25 kg bag of Primus M will produce approximately 19 litres of base coat mixture. To a clean 20 litre pail, add 5.5 – 6.0 litres of clean potable water.
    a. Add the Primus M slowly while constantly mixing with a Dryvit recommended mixing paddle or equivalent mixing blade, powered by a slow speed drill.
    b. Slowly add powder and using a slow speed drill and paddle mix for 5 minutes until homogenous. Allow to stand for 5 minutes then re-mix, adding a small amount of water if required. Note: The adhesive may stiffen on standing. Re-mix the product to regain a workable consistency, but DO NOT add more water. Material must be free of lumps before using.

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2. Dryflex

   a. Due to shipping and storage, there may be some separation of materials. Prior to splitting the material and adding Portland cement, remix the material thoroughly. Use a Dryvit recommended mixing paddle or equivalent mixing blade, powered by a slow speed drill. **CAUTION: Do not over-mix or use other types of mixing blades as air entrapment and product damage may occur and result in workability and performance problems.**
   b. Pour ½ of the freshly mixed material, approximately 10 kg, into a clean plastic container.
   c. Add approximately 1/3 of a bag, 10 kg of fresh, lump free EN 197-1:2000 type CEM1 or CEM 11/A-LL Portland cement. Either grey or white cement is acceptable. Add cement slowly and mix thoroughly. **Do not add large quantities of cement at one time.**
   d. Clean potable water may be added to the mixture to adjust the workability. Add as little water as possible, in small increments, and **only** after the Portland cement is thoroughly mixed. **Do not over-water as this will degrade the performance of the Drysulation System and promote efflorescence.**

   NOTE: It is advisable to mix the Dryflex material with Portland cement thoroughly; then wait 5 minutes and mix again to break the initial set. Retempering with a small amount of water is permissible provided the mixture has not set. The mixture has a pot life similar to any Portland cement material. Mix only as much material as can be conveniently used during a work period.

   WARNING: No additives such as sand, aggregates, rapid binders, anti-freeze, accelerators, etc., shall be added to any Dryvit materials under any circumstances. Such additives will adversely affect the performance of the material and void all warranties.

G. Primers

1. Color Prime, Primer with Sand and Prymit

   a. Mix material with a Dryvit recommended mixing paddle or equivalent mixing blade, powered by a slow speed drill to a homogeneous consistency.

H. Finishes

1. PMR Quarzputz, Sandpebble, Sandpebble Fine, Sandblast and Lymestone Finishes
   FD PMR Quarzputz, Sandpebble, Sandpebble Fine, Sandblast and Lymestone Finishes
   PMRB Quarzputz, Sandpebble, and Sandpebble Fine Finishes
   HDP Quarzputz, Sandpebble, Sandpebble Fine, Sandblast and Lymestone Finishes.

   a. Thoroughly mix the factory-prepared Dryvit finish with a Dryvit recommended mixing paddle or equivalent mixing blade powered by a slow speed drill until a uniform, homogeneous consistency is attained. A small amount of clean potable water may be added to adjust workability. Always add the same amount of water to each pail within a given lot to avoid colour variation.

I. Specialty Finishes

1. Brick Effect and Dash Receiver

   a. Mortar coat and Face coat - Carefully measure 5.0 – 6.0 litres of water into a plastic bucket for one 25 kg bag. Slowly add powder and using a Dryvit recommended mixing paddle or equivalent mixing blade, powered by a slow speed drill mix for 5 minutes until homogenous. Allow to stand for 5 minutes then re-mix. Note: The render may stiffen on standing. Re-mix the product to regain a workable consistency, but DO NOT add more water.

2. Custom Brick Finishes

   a. For Custom Brick finishes, refer to Dryvit Custom Brick Application Instructions, DUK154 for complete mixing instructions.

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3. Ameristone, Stone Mist, TerraNeo, Lymestone, Weatherlastic Adobe, Reflectit

    a. Mix for 1 minute to ensure uniformity using a Dryvit recommended mixing paddle or equivalent mixing blade powered by a slow speed drill, just prior to application. **DO NOT OVERMIX.**
    b. Mix all pails for the same amount of time.

J. Coatings and Sealers

1. Demandit, HDP Water-Repellent Paint, Silstar, Revyvit, and Weatherlastic® Smooth

    a. Mix with a Dryvit recommended mixing paddle or equivalent mixing blade powered by a slow speed drill to a homogeneous consistency, immediately prior to application.

2. Tuscan Glaze™

    a. Mix Tuscan Glaze with a Dryvit recommended mixing paddle or equivalent mixing blade powered by a slow speed drill to a homogeneous consistency, immediately prior to application. As an alternate, boxing of buckets is acceptable. **Continuously** agitate throughout application to ensure **colour consistency.**

3. SealClear™

    a. Stir material thoroughly before using and stir often during the application process. As an alternate, boxing of buckets is acceptable.

K. Preparation of Openings.

1. Consideration must be given as to whether the Drysulation system is being installed with existing or new windows in either a set back or set forward position. Please refer to Dryvit Drysulation DUK 960 standard details for further guidance.

L. Substrate expansion and joint bridging options.

1. Refer to Dryvit AquaFlash application instructions DUK 196.

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IV. Insulation Board Installation

A. Inspection of the Insulation Board

1. Prior to installing the insulation board, it shall be checked to ensure that:

    a. The Dryvit Square Edge (standard white) or Dryvit LL Square Edge EPS (low lambda grey) insulation conforming to EN13163:2001 Euroclass E, containing fire retardant additive, typically 1.2 m by 0.6 m shall be obtained from Dryvit UK Ltd.

B. Methods of Applying the Dryvit Adhesive

1. Notched Trowel or Ribbon and Dab Method (consult table below)

Substrate out-of-plane tolerance in 3 metres	**Substrate Type**	**Fixing method**
0 mm to +/- 3 mm (Total 6 mm)	Solid only	Using a stainless steel trowel, install a ribbon of the adhesive mixture, 50 mm wide by 10 mm thick around the entire perimeter of the insulation board. Place eight (8) dabs of the adhesive mixture 10 mm thick by 100 mm in diameter approximately 200 mm on centre to the interior area of the insulation board.
	Solid or Sheathing Board	With a notched trowel, 10 mm wide, 13 mm deep notches spaced maximum 40 mm on centre, apply the adhesive mixture to the reverse side of the insulation board. Holding the trowel at a 45° angle, apply firm pressure to the insulation board in order to scrape the excess adhesive from between the adhesive beads**. NOTE: Apply the adhesive so that the ribbons, a minimum 10 mm high run vertically when the insulation board is placed on the wall.**
+/-3 mm to +/- 6 mm (Total 6 mm to 12 mm)	Solid only	Using a stainless steel trowel, install a ribbon of the adhesive mixture, 50 mm wide by 20 mm thick around the entire perimeter of the insulation board. Place eight (8) dabs of the adhesive mixture 20 mm thick by 100 mm in diameter approximately 200 mm on centre to the interior area of the insulation board.
> +/- 6 mm	Solid only	Substrate re-profile with Stucco Build, refer DUK 601, then follow fixing method as appropriate

NOTE: The ribbon and dab method of applying the adhesive mixture shall not be used with ADEPS. Installations over a gypsum sheathing substrate shall use the notched trowel method described above. CAUTION: Do not install adhesive mixture on the substrate.

C. Dryvit Starter Track

1. Dryvit Starter Track shall be used at the base of the wall only.
2. Using a laser level or chalk line, strike a level line at the base of the wall that coincides with either the top or bottom of the upstand leg.
3. Position the track on the line and press firmly against the substrate. Install the Dryvit Starter Track using corrosion resistant fasteners attached into the underlying substrate or framing members fixed at appropriate centres to suit the substrate type and loading requirements. **Note: Do not overlap tracks, they shall be butted tightly – jointing clips should be used to maintain continuity of the track.**
4. A continuous front drip section at corners can be achieved by cutting the rear upstand leg and base of the track to facilitate bending to the required angle.

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E. Insulation Board Installation

1. Standard Installation

Begin at the base of the wall above the Dryvit Starter Track.

a. When sheathing is used as a substrate (less critical for solid substrates), use a 300 mm by 1.2 m piece of insulation board as a starter row at the base of the wall. This will help minimize the insulation board joints from coinciding with the sheathing joints. Offset the insulation board joints from the sheathing joints a minimum of 200 mm in both vertical and horizontal directions. Install the insulation boards with their long edges oriented horizontally.
b. After applying the adhesive mixture on the reverse of the insulation board, position the board horizontally on the substrate. Press the board gently to the substrate and slide it into position. Apply firm pressure over the entire surface of the insulation board to ensure uniform contact and high initial grab.
c. Using a margin trowel, clean the insulation board edges of any adhesive mixture. Ensure that the insulation board joints are butted tightly and are level and flush. **CAUTION: Do not allow adhesive to remain in board joints since material in board joints can result in cracking.**
d. Install subsequent rows of insulation board in a running bond pattern (vertical joints staggered). Installation in this manner will reduce the potential for cracks to develop.
e. With factory edges exposed, stagger vertical joints at inside and outside corners. Installation in this manner will reduce the potential for cracks to develop. Make sure the corners are straight and plumb.
f. To ensure an overall flat surface, tamp the entire wall with a board that overlaps two to four rows of insulation.
g. If for any reason the insulation board joints are not butted tightly, slivers of insulation board must be installed to fill any gaps. ALL GAPS GREATER THAN 1.5 mm UP TO 7mm CAN BE FILLED WITH DRYVIT EXPANDING POLYURETHANE FOAM GAPS GREATER THAN 7mm MUST BE SLIVERED (To create a tight fitting sliver, it is recommended that a wider joint be cut with a hot groover or similar tool. Do not install adhesive on sliver edges). PU injected into the gap should penetrate as far back to the substrate as possible, but not less than one half the thickness of the EPS. After it cures, the excess should be sliced off using a knife or trowel edge prior to rasping the entire surface of the EPS. Any material that may come loose during the rasping process must be reapplied. **Note:** Allowing this method of filling gaps between the insulation boards is not intended to take the place of good workmanship and care must be taken to ensure that all EPS boards are abutted as tightly as possible during installation.
h. Windows, Doors, Mechanical Equipment, Differing Material Types and <u>All</u> Wall Penetrations
    1) Where compressible seals are specified they should be fitted prior to the installation of the boards around the opening in accordance with manufacturer installation instructions. (refer to Dryvit Drysulation System Installation Details, DUK960).
    2) At penetrations, align the insulation boards so that the edges (vertical and horizontal joints) do not coincide with the corners of the opening. This will reduce stresses on the base coat and minimise the potential for cracking (refer to Dryvit Drysulation System Installation Details, DUK960).
    3) Reveal, Head & Cill - Cut the Dryvit Stop Bead or Dryvit Frame Seal Bead (depending on seal detail) to the required length and mitre any abutting corners. In the case of the Dryvit Frame Seal Bead allow for the thickness of the insulation (and adhesive) and install by pressing the adhesive strip on the back of the bead to the clean window/door frame or mechanical equipment and push firmly into place as shown in the Dryvit Drysulation System Installation Details, DUK960. Ensure the windows and frames are protected at all times during render application. Apply Primus M to the EPS sufficient to fully embed the mesh wings. The main reinforcing mesh is then applied to the insulation boards ensuring the bead mesh is fully overlapped.
    4) Window head – Cut the Dryvit Corner Drip Bead to length. Apply Primus M to the window head and reveal sufficient to fully embed the mesh wings. The drip bead with mesh is pushed tight onto the insulation and the mesh fully embedded by trowelling Primus M smoothly over the surface. The main reinforcing mesh is applied to the insulation boards ensuring the bead mesh is fully overlapped.

CORNER BEAD
WITH DRIP

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5) Corners of all openings such as windows, doors, mechanical equipment and all penetrations shall be reinforced with Detail mesh placed diagonally to the opening as illustrated in Figure No. 1 below. This will reduce the potential for cracking at these high stress areas.

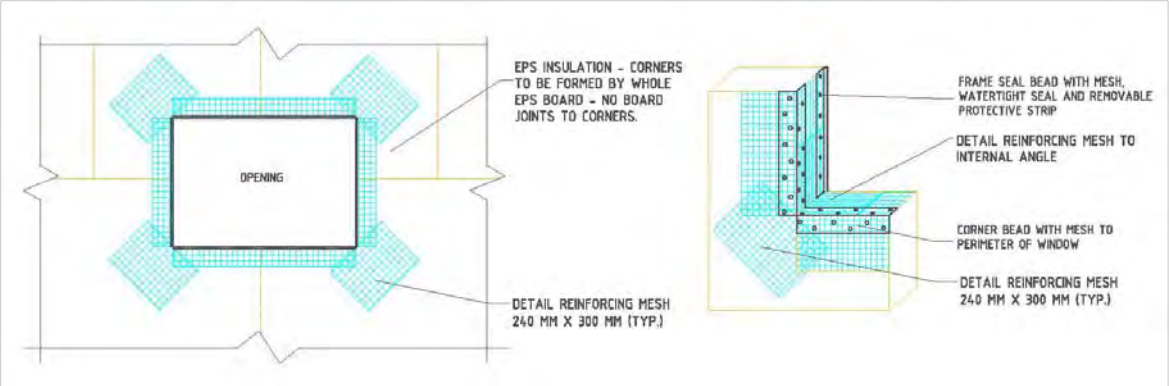
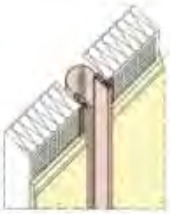


Figure No. 1

i. Vertical Expansion Joints

1) When abutting dissimilar materials or a movement joint in the host substrate is carried through the Drysulation the construction of a movement joint is required. This can be achieved by installing a jointing profile or low modulus sealant.
2) Movement Profile - At the desired location leave an appropriate slot between the insulation boards. Insert a tight fitting polyethylene backer rod greater than the depth of the bead to be installed or use a hot groover to cut a slot less than the board thickness, but of sufficient depth to accommodate the expansion bead. Apply a smooth application of Primus M either side of the joint and onto the joint faces sufficient to fully embed the expansion profile and wings – mesh or PVC. Install the profile in the joint and trowel Primus M smooth to embed the wings. The main reinforcing mesh is applied to the insulation boards either side of the joint ensuring a minimum mesh overlap of 65 mm or fully overlapping the PVC wing. Remove any protective tape over the flexible membrane after the finish is applied, but before it dries. Ensure all lengths of joints are weather lapped so water cannot run behind the profile.



MOVEMENT JOINT PROFILE

3) Sealant - At the desired location leave a minimum 20 mm separation between the insulation boards. Apply a smooth application of Primus M either side of the joint onto the insulation and onto the joint faces. Embed Corner Bead with Mesh taking it a minimum 40mm into the joint and allowing a minimum 65 mm mesh overlap on the front face. Allow to dry before priming and installing sealant see section VII.A.

FRAME SEAL BEAD

STOP BEAD

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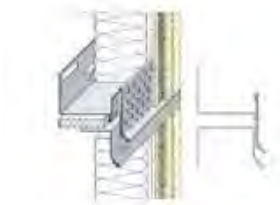
j. Horizontal Expansion Joints
   1) Full system beads – These are installed prior to the installation of insulation and consist of a starter track profile with a clip and angle section.



HORIZONTAL SLIP JOINT PROFILES

k. Corners
   1) Ensure the insulation boards at the corner form a straight edge so the angle of the bead sits snuggly onto the insulation. Apply Primus M to the corner sufficient to fully embed the mesh wings. The Dryvit Corner Bead with Mesh is pushed tight onto the corner and the mesh fully embedded by trowelling Primus M smoothly over the surface. The main reinforcing mesh is applied over the bead mesh a minimum of 100 mm.

CORNER BEAD WITH MESH

l. Different materials
   1) At a transition between different materials such as between Dryvit Brick Effect and Dash Receiver or at the base of the system a Bellcast drip bead should be installed to provide managed water run-off. Cut the Dryvit Bellcast Drip Bead to length. Apply Dryhesive Plus to the substrate and embed the bead up stand and if necessary supplement with mechanical fixings.

BELLCAST DRIP BEAD

m. To ensure an overall flat surface, use a straight edge of sufficient length to overlap at least 2.4 m of wall area.
n. Any irregularities in the insulation board surface must be rasped flat. Rasping is accomplished with a light circular motion. **The entire wall area must be sanded (rasped).** Use grade 20 grit sandpaper or coarser, in conjunction with hand, electric or air rasps. Wear a fine particle dust respirator to protect against inhaling EPS dust. **NOTE: Do not rasp parallel to the board joints**.
o. Remove all loose pieces of insulation board and dust from the rasping operation using a brush, broom, or compressed air. Wear a fine particle dust respirator to protect against inhaling EPS dust.

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p. Aesthetic Reveals
   1) To install an aesthetic reveal, snap a straight line using a chalk line to mark the position.
   2) Position a straight edge such as a steel stud or track against the insulation board in the proper location to guide the appropriate cutting tool (router, hot knife, or hot groover). **CAUTION:** The thickness of the insulation board in the bottom of the joint must not be less than 20 mm. Thicknesses equal to or greater than 20 mm minimize crack development at the base of the joint.
   3) The reinforcing mesh must be continuous through aesthetic joints. To ensure that the mesh is continuous, the reveals shall be meshed with Detail mesh. The Detail mesh must lap a minimum of 65 mm on each side of the reveal.
      i. Apply the Primus M base material mixture in the reveal and on the adjacent insulation board surfaces.
      ii. Embed the Detail mesh on one side of the joint only.
      iii. Using a sled or special tool for the reveal, embed the Detail mesh into the reveal being careful not to cut the mesh.
      iv. Embed the Detail mesh on the other side of the reveal. Ensure that the mesh is fully embedded and that all excess material is removed from the reveal.
      v. Using damp brush, clean out any irregularities in the base coat.
      vi. **CAUTION:** If the mesh is cut in the reveal, a new piece of mesh must be installed over the cut to ensure a 65 mm overlap exists.

V. Fire Barriers

A. Fire breaks

1. Position fire barriers in accordance with BR 135 or to Local Authority Building Control Officer's requirements as indicated on Design Drawings.
2. The fire barrier should form a continuous band through the insulation layer of EPS and eliminate cavity formation.
3. Fire barriers must be constructed of mineral wool lamella compliant to BS 476 part 4 or
4. BS EN 13501–1 Euroclass A1 and be a minimum 100 mm high x total thickness of external wall insulation.
5. Fire barriers require bonding to the substrate (e.g. adhesively). Dryvit Detail Mesh should be applied over the barrier to lap adjacent EPS on either side to a minimum of 50mm in accordance with the standard detail.

VI. Installation of Reinforcing Mesh and Base Coat

A. General

1. Mix the base coat material as described in Section III. Warning: Do not apply the Dryvit materials in the rain. The insulation board surface must be dry prior to applying the base coat material. Prior to installing the reinforcing mesh, it should be inspected to ensure that it has been supplied by Dryvit UK Ltd.

B. Prior to installing the reinforced base coat, inspect the surface of the insulation board for:

1. Flatness, using a minimum 2.4 m straight edge. Rasp any high areas and out-of-plane board joints flat as described in Section IV.E.m. **CAUTION**: Do not build up low areas with base coat mixture to form a flat surface.
2. Damage and foreign materials; correct deficiencies as necessary.
3. Surface degradation due to weathering or U/V, visible as discolouration. Rasp affected areas to remove deterioration while maintaining the flatness of the surface.

C. Dryvit Reinforcing mesh is available in the following widths and lengths:

1. Standard™ - 1.2 m x 45.7 m
2. Standard Plus, Intermediate® - 1.2 m x 45.7 m
3. Panzer® 15 - 1.2 m x 22.9 m
4. Panzer 20 - 1.2 m x 22.9 m

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5. Detail® - 240 mm x 45.7 m
6. Profile beads with mesh - supplied in 1.5m lengths (quantity per pack may vary)

D. Base Coat application (single layer of Standard, Standard Plus or Intermediate Reinforcing Mesh).

1. Standard Base Coat (Single layer of reinforcing mesh)

   a. Mix the base coat mixture as described in Section III.D or F.
   b. The base coat shall be applied such that the resulting overall minimum base coat thickness is sufficient to **fully embed** the reinforcing mesh. The recommended method is to apply the base coat in two (2) passes.
   c. Double pass method (recommended)
      1) Using a stainless steel trowel, apply the base coat mixture on the entire surface of the insulation board to an area slightly larger than the width and length of a piece of reinforcing mesh, in a uniform thickness of 1.6 mm. **NOTE:** The reinforcing mesh may be installed either vertically or horizontally.
      2) Immediately place the reinforcing mesh against the wet base coat mixture. With the curve of the mesh against the wall, trowel from the centre to the edges avoiding wrinkles, until the mesh is fully embedded and not visible. Trowel smooth to a uniform thickness slightly more than the thickness of the reinforcing mesh. **NOTE:** The reinforcing mesh shall be continuous at corners and mesh edges lapped not less than 65 mm. Do not lap the reinforcing mesh within 200 mm of a corner. **Tip:** Corners and edges normally require light strokes with a small damp brush to smooth out irregularities.
      3) Allow the base coat mixture to take up until firm to the touch. Trowel a second tight coat of the base coat mixture over the first coat to **fully cover** the reinforcing mesh (see Figure No. 2). The result should be such that the reinforcing mesh is approximately centred within the base coat thickness. Do not allow the first pass too completely dry prior to the second pass application or an excessive amount of base coat mixture will be necessary to fully coat the wall surface.

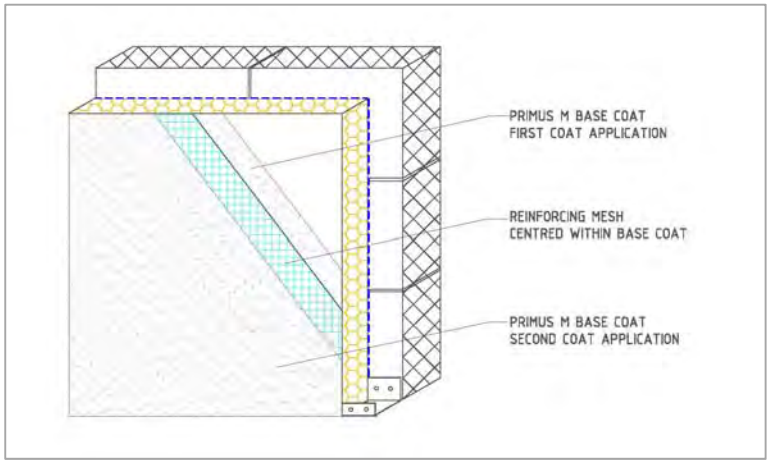

Figure No. 2

   d. Single pass method (optional)
      1) Using a stainless steel trowel, apply the base coat mixture on the entire surface of the insulation board, to an area slightly larger than the width and length of a piece of reinforcing mesh, in a uniform thickness of approximately 2.5 mm.
      2) Immediately place the reinforcing mesh against the wet base coat mixture. With the curve of the mesh against the wall, trowel from the centre to the edges avoiding wrinkles until the mesh is fully embedded and no mesh pattern is visible. **Note:** The reinforcing mesh shall be continuous at corners and mesh edges lapped not less than 65 mm. Do not lap the reinforcing mesh within 200 mm of a corner. Tip: Corners and edges normally require light strokes with a small damp brush to smooth out irregularities.
   e. Protect completed work from water penetration and run-off.
   f. Allow the base coat to cure a minimum of 24 hours before proceeding with application of finish coat. Cool, damp conditions may require longer drying times. Do not apply finish to a wet or damp base coat.

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2. Panzer Mesh base coat (Panzer 15 or Panzer 20 used in conjunction with Standard or Standard Plus Reinforcing Mesh).

    a. Using a stainless steel trowel, apply the base coat mixture on the entire surface of the insulation board to an area slightly larger than the width and length of a piece of reinforcing mesh, in a uniform thickness of approximately 3.2 mm.
    b. Immediately place the reinforcing mesh against the wet base coat mixture. With the curve of the mesh against the wall, trowel from the centre to the edges avoiding wrinkles until the mesh is fully covered and not visible.
    c. Continue in the same manner until the entire area requiring Panzer mesh is covered. **Caution: Do not lap the Panzer mesh. Adjacent pieces are to be tightly butted.**
    d. Protect completed work from water penetration and run-off.
    e. Allow the Panzer base coat to cure a minimum of 24 hours prior to applying Dryvit's Standard or Standard Plus reinforcing mesh.
    f. Apply the second layer of reinforcing mesh in accordance with Section VI.D.1.a. Offset the edges of the Standard or Standard Plus reinforcing mesh from the edges of the Panzer mesh a minimum of 200 mm. **Tip: If Panzer Mesh is installed horizontally, we recommend the Standard or Standard Plus mesh be installed vertically and vice versa.**

E. Installation of Dryflex base coat in high exposure areas such as sloped surfaces, window sills, etc.

1. Mix the Dryflex material as described in Section III.F.2. **Warning:** Do not apply the Dryvit materials in the rain. The insulation board surface must be dry prior to applying the base coat material.
2. Using a stainless steel trowel, apply the Dryflex mixture on the surface of the insulation board in a uniform thickness of approximately 2.5 mm. Apply the Dryflex continuously over the sloped surface and continue minimum 150 mm onto the vertical areas.
3. Immediately place the reinforcing mesh against the wet Dryflex mixture. With the curve of the mesh against the wall, trowel from the centre to the edges, avoiding wrinkles, until the mesh is fully covered and not visible. The overall minimum base coat thickness shall be sufficient to fully embed the reinforcing mesh. The recommended method is to apply the base coat in two (2) passes. **NOTE: The reinforcing mesh can be continued across the transition from Dryflex base coat to standard base coat.**
4. Allow the Dryflex to cure a minimum of 24 hours or until dry.

F. Installation of mechanical fixings when required to meet wind load requirements or 60 year durability of EWI systems in accordance with BBA policy 16.

1. Mix Dryhesive Plus adhesive as described in Section III.E.1 and apply to the Insulation board in accordance the appropriate method described in Section IV.B.1.
2. Install the insulation board in accordance with Section IV.E.1. and allow the adhesive to set.
3. Mix and apply Primus M base coat mixture as described in Section III.F.1
4. The base coat shall be applied such that the resulting overall minimum base coat thickness is sufficient to **fully embed** the reinforcing mesh. The recommended method is to apply the base coat in two (2) passes as described in VI.D.1c.
5. Dryvit specified mechanical fixings can be installed either before or after the mesh installation in a pattern shown in the Drysulation system details layout drawing OS.0.0.29 or at a fixing density provided in project specific Dryvit layout drawings. Consult Dryvit for the exact fixing installation instructions as some fastener heads are installed flush to the insulation surface and others countersunk into the insulation.
6. **60 year durability compliance** - Install Dryvit specified mechanical fixings (Polyamide PA6 or PA6.6 or Polyethylene (PE) or Polypropylene (PP) plastic bodies with stainless steel or BBA approved plastic expansion pins) after the mesh has been installed. Use the correct diameter masonry bit and drill a hole through the wet base coat, mesh and board into the substrate to the correct fastener embedment depth. Push the fixing body of the fastener through the hole and screw or hammer (as required) the fixing pin into place such that the outer flange of the plate shaped head causes a slight deformation in the mesh and is flush with the mesh surface. Do not over drive the fastener head which should sit flush to a maximum of 1.6 mm beneath the surface of the insulation board causing a slight dimple at each fastener location. Insert an EPS plug into the fastener recess if applicable. Allow the base coat to dry before application of the second base coat skim. Trowel a second coat of base coat over the first coat to fully cover the mesh and fill the holes and pin recess in the plate shaped head of the faster. Centrally place a precut 120 mm square of Detail mesh over each fixing head and neatly embed it in the surrounding base coat mixture ensuring it is also fully coated in base coat. [The objective of this operation is to ensure all

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mesh is fully coated in base coat and that the fixing head is as unobtrusive to view as possible]. Using a small damp brush, smooth out irregularities and feather the edge of the base coat mixture. The reinforcing mesh must be totally embedded in the wet mix.

VII. Sealant Joint Preparation

A. All sealant joints shall be prepared with either Dryvit Demandit or Color Prime.

1. Stir Demandit or Color Prime, Primer with Sand to a smooth, homogeneous consistency.
2. Apply Demandit or Color Prime with a brush on each side of the joint.
3. Allow the Demandit or Color Prime to dry a minimum of 24 hours prior to sealing with recommended sealant as listed in DUK153.

VIII. Dryvit Primers

A. Base coat cure

1. Prior to applying the Dryvit primers, the base coat shall have cured a minimum of 24 hours and shall be dry and hard. Cure time may be longer depending on environmental conditions. **NOTE: Refer to Product Data Sheets when applying over other materials.**

B. Inspection & preparation

1. Inspect the base coat for any irregularities such as trowel marks, board lines, rough corners and edges, improper reinforcing mesh embedment as well as efflorescence. **NOTE: Correct all irregularities and remove all efflorescence prior to applying the Dryvit primer.**

C. Color Prime and Primer with Sand

1. Mix to a smooth homogeneous consistency in accordance with Section III.G.1
2. Apply with a brush, roller, or airless spray equipment. Refer to Color Prime or Primer with Sand Data Sheets, DUK410 or DUK477 respectively for complete instructions.

D. Prymit

1. Mix to a smooth homogeneous consistency in accordance with Section III.G.1
2. Apply to the prepared painted surface with a roller, or brush. Refer to Prymit Data Sheet, DUK424 for complete instructions.

IX. Dryvit Finishes

A. System finish options

The following Dryvit finishes are acceptable for exterior use as part of the Outsulation System.

1. PMRB Finishes
   a. Quarzputz, Sandpebble and Sandpebble Fine.
2. PMR and FD PMR
   a. Quarzputz, Sandpebble, Sandblast, Sandpebble Fine and Lymestone
3. HDP
   a. Quarzputz, Sandpebble, Sandblast, Sandpebble Fine and Lymestone.
4. Brick Effect
5. Dash Receiver and Dash Aggregate
6. Custom Brick
7. Specialty Finishes
   a. Ameristone, Stone Mist, TerraNeo, Lymestone, Reflectit and Custom Brick.
8. Elastomeric DPR (Dirt Pick-up Resistant) Finishes.
   a. Weatherlastic Adobe.
9. Coatings, Primers, and Sealers
   a. Demandit, Revyvit, Silstar, Color Prime, Primer with Sand, Prymit and SealClear

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B. Base coat cure

1. Prior to applying the Dryvit finish, the base coat shall have cured a minimum of 24 hours and shall be dry and hard. Cure time may be longer depending on environmental conditions.

C. Inspection & preparation

1. Inspect the base coat for any irregularities such as trowel marks, board lines, rough corners and edges, proper reinforcing mesh embedment as well as efflorescence. **NOTE:** Correct all irregularities and remove all efflorescence prior to applying the Dryvit Finish.

D. Application

1. General

    a. Important: All Dryvit finishes must be installed continuously to a natural break such as corners, expansion joints, or tape line. Trained** applicators must maintain a wet edge. Whenever possible, order enough material in a single batch to complete the project to avoid potential colour variations from batch to batch. Sufficient personnel and scaffolding must be provided to continuously finish a distinct wall area or otherwise cold joints will result. Scaffolding must be spaced to maximum, as allowable by HSE legislation. On hot windy days, the wall may be fogged with clean potable water to cool the wall and facilitate finish installation. As with other plaster materials, installation work should precede the sun. For example, work the shady or cool side of the building. If this is not possible, scaffold should be shaded with a tarp or nursery shade cloth. Do not introduce water to the finish material once it is installed on the wall. This will cause colour variations. Each applicator must use the same tool and hand motion and match the texture of the applicators above, below and on each side. Use finish from a single batch number whenever possible.

    b. Do not apply Dryvit materials in the rain. The base coat must be dry prior to applying the Dryvit finish or coatings.
    c. Do not apply textured Dryvit finish material in sealant joints. Refer to Section VII for proper sealant joint preparation.

2. PMR Quarzputz, Sandpebble, Sandpebble Fine, Sandblast and Lymestone Finishes,
   FD PMR Quarzputz, Sandpebble, Sandpebble Fine, Sandblast and Lymestone Finishes,
   PMRB Quarzputz, Sandpebble, and Sandpebble Fine Finishes,
   HDP Quarzputz, Sandpebble, Sandpebble Fine, Sandblast and Lymestone Finishes.

    a. Mix the Dryvit finish as described in Section III.H.1.a. **Warning: Do not apply the Dryvit materials in the rain. The base coat surface must be dry prior to applying the Dryvit Finish material.**
    b. Using a clean stainless steel trowel, apply a coat of the Dryvit finish in a uniform thickness on the dry base coat. **Note: The Dryvit Quarzputz finish shall be applied and levelled to a uniform thickness no greater than the largest aggregate. The Sandblast finish is applied and levelled to a thickness of approximately 1½ times the largest aggregate. Caution: Do not apply finish in sealant joints. Refer to Section VII for proper preparation of sealant joints.**
    c. The texture is achieved by uniform hand motion and/or tool that produces the texture to match the approved sample. Each mechanic must use the same tool and hand motion to ensure that the texture achieved is uniform over the entire wall area.

3. Dash Receiver

    a. Apply a uniform layer of Dashing Receiver render to achieve a flat plane surface. While the render is still soft throw washed dashing aggregate onto the surface at an approximate rate of 10 -15 kg/m² to give a uniform coverage. Immediately tamp the aggregate into the Dash Receiver with a wooden float to ensure a good bond is obtained.

4. Brick Effect

    a. Mortar coat – Apply 1-3 mm and level to achieve a flat plane surface, but take care not to over work the surface. Allow to stiffen “take up”, but not set.

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b. Face coat – After the Mortar coat has stiffened, apply the face coat at approximately 1-2 mm and immediately lightly texture the Face coat with a soft bristle brush to create a brick surface effect. Leave to stiffen, but not set, for between 30-120 minutes dependent on drying conditions. Once stiffened use a gauging tool to mark up the brick courses and with a long straight edge, spirit level and cutter carefully cut through the render to create the horizontal joints (generally a two man job). Push the cutter back to the hard base coat or host substrate to give a consistent mortar joint. Mark and cut out the vertical joints in a similar manner to complete the brick effect finish. Once all cuts have been made, lightly brush any excess material from the joints taking care not to mark the render surface.

Note: Experience and climatic conditions will dictate the best time for cutting of the face coat to form the joints, too soon and the cutter will rag and tear the render and too late and it becomes difficult then impossible to cut.

5. Custom Brick

a. Refer to Dryvit Custom Brick Application Instructions, DUK154 and DUK214, for complete usage instructions. **CAUTION: Do not apply Custom Brick in sealant joints. Refer to Section VII for proper preparation of sealant joints. Warning: Do not apply the Dryvit materials in the rain. The base coat surface must be dry prior to applying the Dryvit Custom Brick finish material.**

6. Ameristone, Stone Mist, TerraNeo

a. Mix respective finishes as described in Section III.I.3.
b. Apply Ameristone and Stone Mist finish in accordance with Ameristone and Stone Mist Application Instructions, DUK142 and DUK420 respectively and TerraNeo in accordance with Datasheet DUK481. **CAUTION: Do not apply finishes in sealant joints. Refer to Section VII for proper preparation of sealant joints. Warning: Do not apply Dryvit materials in the rain. The base coat surface must be dry prior to applying the Dryvit speciality finish material.**

7. Elastomeric Weatherlastic Adobe

a. Using a brush, roller or airless spray equipment, apply a coat of colour coordinated Color Prime at the recommended coverage to the cured base coat and allow to dry.
b. Mix the Adobe finish material as described in Section III.I.3. **Warning: Do not apply the Dryvit materials in the rain. The base coat surface must be dry prior to applying the Dryvit Finish material.**
c. Using a stainless steel trowel, apply a coat of Adobe approximately 1.6 mm to the wall surface. Allow the Adobe finish to take-up.
d. Using a stainless steel trowel, apply a second coat of Adobe to obtain the desired texture. **Tip: An atomising spray bottle may be used to apply a mist of water to the surface in the finishing step. CAUTION: Do not apply Adobe finish in sealant joints. Refer to Section VII for proper preparation of sealant joints.**

8. Reflectit

a. Using a spray gun, roller or brush.
b. Newly applied finishes and Ultrafil should have dried for at least 24 hours under average conditions and be colour coordinated to the desired Reflectit. Existing finishes shall be clean and colour coordinated with Dryvit Color Prime.
c. Mix the Reflectit as described in Section III.I.3.**Warning: Do not apply the Dryvit materials in the rain.**
d. Spray application is the recommended method over Ultrafil and fine textured finishes, such as Sandpebble Fine or Adobe.
e. Roller application over Ultrafil is not recommended as this can result in visible roller and lap marks. This application method should only be used over more highly textured finishes such as Sandpebble and coarser. A short or medium pile woven fabric roller is recommended. Apply in two coats are required to achieve optimum performance in one continuous coat, maintaining a wet edge as application proceeds to a natural break. The roller must be kept fully loaded as the application proceeds, do not stretch out the application by rolling with a dry roller and the last levelling roller strokes should always be in the same direction to avoid directionality of the reflective pigments.

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X. Coatings and Sealers

A. Demandit and HDP Water-Repellent Paint

1. Mix to a smooth homogeneous consistency in accordance with Section III.J.1.a
2. Apply with a brush, short or medium pile woven fabric roller or airless spray equipment.
3. Apply in one continuous coat, maintaining a wet edge as the application proceeds to a natural break. The roller cover must be kept fully loaded as the application proceeds. **CAUTION: Do not stretch out the application by rolling with a dry roller. The last levelling roller strokes should always be in the same direction. Do not cut in around openings prior to overall application, but rather, do the cut-in work as the application proceeds.**
4. Do not allow coatings to dry on roller sleeves as they do not apply the coating evenly.
5. Changing colour requires the application of two coats.

B. Revyvit

1. Mix the Revyvit to a smooth homogeneous consistency in accordance with Section III.J.1.a
2. Apply the Revyvit with a brush or short pile woven fabric roller.
3. Roll or brush in multiple directions and then lightly finish in one direction to ensure that no lap marks remain. A second coat may be required for heavy textured surfaces or when there is a contrast of colours. Apply the second coat as described above. **CAUTION: Do not attempt to apply Revyvit in one heavy coat. Two coats are recommended. Apply the second coat only after the first coat is completely dry. Important: Texture changes will exist after Revyvit is applied over existing Dryvit finishes. The degree of change is a function of the thickness and the number of coats of Revyvit.**

C. Weatherlastic Smooth

1. Mix the Weatherlastic Smooth to a smooth, homogeneous consistency in accordance with Section III.J.1.a
2. Apply a minimum 280 microns dry film thickness (560 microns wet film thickness). This is achieved by applying the Weatherlastic Smooth in two (2) 280 micron wet coats. Under average drying conditions, 21 °C (70 °F), 50 % RH, two (2) hours drying time between coats should be adequate.
3. For cutting-in and trim, a nylon bristle brush is recommended.
4. Roller Application
   a. A medium or long pile woven fabric roller is recommended.
   b. Completely saturate the roller cover and keep the roller loaded with coating to avoid foaming. Do not dry-roll or over-roll as this will cause excessive entrapment of air within the coating.
   c. A second coat is applied in a similar manner after the first coat has adequately dried.
5. Spray Application
   a. Application by airless spray equipment or mastic pump and gun allows application of coating at total required application rate with a minimum of stipple or thickness variations.
   b. Equipment should have the capacity to pump 7.6 litres of coating per minute.
   c. Material hose should be minimum 12.5 mm inside diameter for spraying coating through more than a 15 m length. Minimum bursting of 3600 N (800 lbs) is recommended. **Tip: Orifice sizes of 0.53 mm - 0.81 mm (.021 in - .032 in) will be required depending on equipment used.**
   d. Cross apply coating holding spray gun perpendicular to, and approximately 1 m from the wall surface. Avoid excessive material build-up by holding spray gun away from the wall when pulling the trigger, then bringing gun across area to be coated. Maintain a wet edge and avoid starting and stopping in the middle of the wall. Do not attempt to overreach spray pattern as this may result in appearance of irregular spray pattern. Place scaffolding and equipment to facilitate quick application without numerous interruptions.
   e. A 10 % loss from overspray should be anticipated.
   f. Backrolling sprayed areas is recommended to control pinholing on spray applications over porous surfaces.

D. Tuscan Glaze

1. Mix Tuscan Glaze to a smooth homogenous consistency in accordance with Section III.J.2.a. Continuously agitate throughout application to ensure colour consistency.
2. Tuscan Glaze is best applied on large areas using a low pressure pump action sprayer or airless spray equipment. For smaller areas, Tuscan Glaze is best applied with a paint pad or, depending on the

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desired results, a roller, paint brush or sponge. Job site mock-ups are required and should represent the actual job site application techniques.

3. Apply Tuscan Glaze evenly in light strokes. If sagging or running occurs, use a sponge or paint pad to correct immediately. Watch for brush or roller lines. If brush or roller lines appear, use a damp sponge, a paint pad or rag to make them disappear before the Tuscan Glaze starts to dry. The wall may be blotted with a camelback sponge to achieve the desired mottled appearance. Check walls throughout the application to insure that uniformity and the desired appearance is achieved.

E. SealClear

1. Mix SealClear to a smooth, homogeneous consistency in accordance with Section III.J.3.a
2. For application instructions, refer to the SealClear Data Sheet, DUK426.

XI. Maintenance and Repair

A. Maintenance and cleaning procedures together with a range of remedial methods are available from Dryvit on request

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