



SPECIFICATION FOR TILING & WATERPROOFING OVER THE SHOWERWELL TILES SAFE SYSTEM

PRODUCTS: Davco Ultraprime, Davco PrimeX, SikaTile -010 Secure Prime, SikaTile -015 Prep N Prime, Davco SMP Evo, SikaTile -400 Evo Pro, Davco K10 Plus, SikaTile -110 Secure Proof, SikaTile -111 Rapid Proof, Sikafloor -215 Rapid Screed, Sika Eco Screed, SikaCeram -690 Elite Grout

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Part 1 - General

1.1 Summary

This specification describes the execution of the installation of waterproofing and tiling to the Showerwell Tilesafe System.

The described procedure follows best practice procedures and the requirements of AS3958 Part 1 and Part2.

This specification assumes that the structural substrate is structurally sound and fit for purpose.

This specification is for tiles that are, dimensionally stable and fit for purpose.

1.2 Quality Assurance

A. Manufacturing qualifications

The manufacturer of the specified product shall be ISO 9001:2008 certified and have in existence a recognized on going quality assurance program, independently audited on a regular basis.

Contractor qualifications:

Contractor shall be qualified in the field of tile installation with a successful track record of 5 years or more. Contractor shall maintain qualified personnel who have received product training by a manufacturer's representative.

Materials should be installed in accordance with all safety and weather conditions required by manufacturer or as modified by applicable rules and regulations of local, state and federal authorities having jurisdiction. Consult Material Safety Data Sheets (MSDS) for complete handling recommendations.

1.3 Delivery, Storage, and Handling

- A. All materials must be delivered in original, unopened containers with the manufacturer's name, labels, product identification, and batch numbers. Damaged material must be removed from the site immediately.
- B. Store all materials off the ground and protect from rain, freezing or excessive heat until ready for use.
- C. Condition the specified product as recommended in the PDS

1.4 Job Conditions

- A. Environmental Conditions: Do not apply material if it is raining or if such conditions appear to be imminent. Application temperature should be between 5°C and 35°C.
- B. Protection: Precautions should be taken to avoid damage to any surface near the work zone due to mixing and handling of the specified material.
- C. All for all products to adequately cure in accordance with data sheets. Note in cold weather the curing process is prolonged. Finished works shall be protected during cold weather and in hot weather provide shade to areas being tiled.

1.5 Submittals

- A. Submit two copies of manufacturer's literature including but not limited to: Product Data Sheets (PDS), and appropriate Material Safety Data Sheets (MSDS).



1.6 Limitations

1.6.1 Waterproofing Design

The design of the waterproofing systems for the project is the responsibility of the client appointed Engineer. Sika (AU) Pty Ltd will supply a specification and details for the correct use and application of the product, but correct waterproofing design cannot be undertaken separately from the building design. The design of the waterproofing of the structure will depend on and is a function of the design methodology for the structure. Factors such as the layout of movement control joints, detailing of footings, location of penetrations, positions of piles and construction sequencing will all affect the waterproofing design.

1.6.2 Application limitations

- i. Protect from rain for at least 24-48 h after application.
- ii. Avoid application in direct sun light, when rain is imminent or in strong winds.
- iii. Setting time can be influenced by high relative humidity, particularly in closed rooms or basements. The use of adequate ventilation is strongly recommended.
- iv. Always apply during falling ambient & substrate temperatures to avoid 'pin-holing' from rising air.
- v. **Dew Point:** The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish. Low temperatures and high humidity conditions increase the probability of blooming.
- vi. Do not use **Davco K10 Plus, SikaTile -110 Secure Proof or SikaTile -111 Rapid Proof** membrane systems on substrates with rising moisture.

All products shall be installed in strict accordance with this document and the product data sheets.

Part 2 - SURFACE PREPARATION

Examine surfaces to receive bedding mortars, floor levelling compounds, waterproofing membranes or tile adhesives and the conditions under which these products will be installed.

Do not proceed with tiling works etc. until surfaces and conditions comply with the following requirements.

Note - Commencement of installation constitutes acceptance of site conditions.

This specification has restrictions with respect to temperature. During the application of all Davco products, the installation must not be exposed to temperatures below 5oC or above 35oC. In particular; any external tiling, waterproofing, floor levelling, grouting or concrete repair installations must be protected from hot windy conditions and or rain and heavy frosts during application.

The surface to be tiled must be even and true, such that the variance in the surface is no greater than specified in Section 4 of AS 3958.1: Guide to the Installation of Ceramic Tiles.
(Maximum variation in plane of background = 4 mm in 2 metres).

The surface should be structurally sound, dry and clean. This involves being free from movement, oils, greases, waxes, paints, curing compounds, release agents, sealers and any other loose contaminating materials. This can be done via mechanical abrasion that could involve such means as scabbling, grinding or shot blasting the areas to be tiled.

The surface needs to be prepared so as to expose the aggregate and allow a good mechanical key for the subsequent application.

Part 3 - EXPANSION JOINTS

Expansion or Movement joints are required by Australian Standard AS3958.1 2007 for the following purposes.

- To separate the tiled surface from fixed elements such as columns or walls.
- To divide large tiled areas into smaller areas to compensate for induced strain from various causes in the installation.
- To interrupt the tiled surface to match existing movement joints in the substrate.

All expansion or movement joints (for floors and walls) must be carried through both the tile **AND** bedding material, to the background substrate. They must be filled with permanently deformable material such as silicone or polyurethane and be resistant to chemical and physical attack. Joints other than those protected by metal or rigid plastics edging, subject to traffic heavier than light pedestrian, should not be wider than 10 mm.

Part 4 - PRIMING

Porous surfaces must be primed with Davco **Ultraprime**.

Non-porous substrates such as steel trowelled concrete, compressed fibre cement sheeting or Scyon board etc. should be primed with **Davco PrimeX or SikaTile -010 Secure Prime**.

Under hot, windy conditions (temp. above 30°C), it is essential to wet down any concrete substrates with clean water prior to priming, so that the primer does not flash dry. When wetting down the floor, do not allow the water to pool or pond on the surface. The substrate should appear matt, with no signs of glistening water evident prior to application of the primer.

Showerwell Wall Lining

The wall lining material as tested by Sika Australia should be sanded with a 60 grit sand paper removing the gloss surface and all residual dust removed prior to the application of the SikaTile -015 Prep N Prime. Apply two (2) coats of SikaTile -015 Prep N Prime to the wall liner one (1) hour after each other and allow to dry.

Part 5 - WATERPROOFING

All waterproofing membranes need to be installed in accordance with AS3740 Waterproofing of Domestic Wet Areas, or AS4654 for External installations.

The floor in any residential shower recess needs to have a fall to the drain, such that any water on the surface will run to the drain, and not pond on the surface. If the floor does not have such falls incorporated, a screed will need to be installed to create the falls.

The application of the screed should be constructed out of **Sika Eco Screed or Sikafloor -215 Rapid Screed**.

Showerwell Tray

Prior to adhering the Showerwell Tray, the Concrete or Ceramic Tile Underlay (over timber flooring) substrate should be primed with **Davco Ultraprime or PrimeX or SikaTile -010 Secure Prime**.

When adhering the Showerwell Tray, **Davco SMP Evo or SikaTile -400 Evo Pro** should be used as the fixing system to adhere the tray to the substrate using a 10mm notched trowel along with back buttering the tray prior to placing the tray unit.

Part 6 - TILE ADHESIVE

All tiling works should be undertaken in accordance with the requirements of AS3958, Installation of Ceramic Tiles.

Floors: (Showerwell Shower Tray)

Apply **Davco SMP Evo or SikaTile -400 Evo Pro** to the substrate using a suitable size notched trowel before placing the tile unit. See datasheet for further information.

Walls: (Showerwell Wall Lining)

Sand the Showerwell wall lining with 60 grit sandpaper and remove all dust.

Apply two (2) coats of **SikaTile -015 Prep N Prime** (as a bonding primer) at 1-hour intervals to the substrate using as per specifications detailed in the technical data sheet attached. Allow 24 hours to cure. See datasheet for further information.

Apply **Davco SMP Evo or SikaTile -400 Evo Pro** to the substrate using a suitable size notched trowel before placing the tile unit.

See datasheet for further information.

Note : Outside the area of the shower recess itself, **Davco Maximum** tile adhesive can be used over the concrete wall substrate and the flexible wall boards.

Part 7 - GROUT

For joints 1 – 10mm wide, apply **SikaCeram -690 Elite Grout**.
See datasheets for further information.

END OF SIKA® SYSTEM SPECIFICATION



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