

Concrete Deck Waterproofing - Membranes

Silcor™ DM10

Two component, thixotropic detailing membrane for use with Silcor liquid waterproof membranes.

Description

Silcor™ DM10 is designed to complement Silcor liquid waterproof membranes where a thixotropic, trowel applied detailing membrane is needed to ensure watertight continuity. Silcor DM10 cures to form a tough seamless rubber-like waterproof membrane.

Principal Applications

- Pipe penetrations
- Concrete and steel upstands
- Outlet flanges
- Gullies.

Installation

Compatibility/Adhesion

Silcor DM10 has been tested for compatibility and adhesion to the following substrates:

- Dry concrete
- Steel (cleaned and abraded)
- Silcor liquid waterproof membranes.

For advice on adhesion to additional substrates please contact Grace.

Climate Conditions During Application

Silcor DM10 should be applied at a temperature above +5°C and at relative air humidity of less than 65%.

Substrate Preparation

Concrete should be allowed to cure for at least 28 days. Concrete moisture content must be less than 5% prior to application. Moisture content must be checked using appropriate test methods. Grace recommends relative moisture content measured from a pre-drilled hole in the concrete (follow manufacturer recommendations for the moisture measurement technique and device being utilized).

Concrete and Silcor membrane surfaces should be dry, clean, sound, and free of any contaminants and loose particles. If Silcor liquid membrane has been installed for more than a day, lightly abraid membrane surface and remove all dust before applying Silcor DM10. Compressed air blasting is recommended to remove any loose particles and moisture.

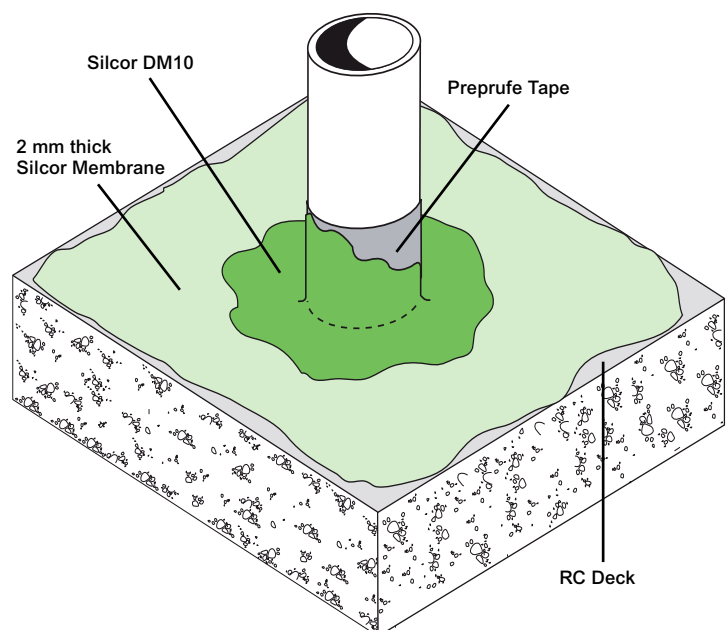
Steel should be grit blasted to SA 2.5 specification or ground back to remove the surface of the steel, then degreased with solvent.

Mixing

Silcor DM10 is supplied as a two component product. Mixing should be with a minimum 1000 W, variable speed drill and a helical blade mixing paddle, 80 mm dia or similar.

Advantages

- **Seamless** – continuous waterproofing integrity.
- **Adhesion** – to all Silcor liquid waterproof membranes, concrete and steel.
- **Elastomeric** - accommodates normal substrate movements.
- **Self-protected** – tough with excellent wear and abrasion resistance.
- **Cold applied** – no flame hazard.



Typical Pipe Penetration Detail

Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact Grace Technical Services

Supply

Silcor™ DM10 (Part A)	4.55 litres
Silcor™ DM10 (Part B)	0.99 litres
Ancillary Products	
Adcor® 500S	6 x 5 m rolls
Preprufe® Tape	100 mm x 15 m

Adhesive Properties

	Typical Value	Test Method
Silcor DM10 to Silcor liquid membrane	2.64 N/mm	ASTM D 1876 T-peel
Silcor liquid membrane to Silcor DM10	1.64 N/mm	ASTM D 1876 T-peel

All declared values shown in this data sheet are based on test results determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

Open the Part A container and pre-mix thoroughly until an homogeneous, lump free mix is obtained. Add the entire contents of the Part B container to the premixed A component and mix for 3 minutes, until an homogeneous uniform colour, is obtained.

The mixed product should be free from any colour streaks. Scrape material from the side and bottom of the container to ensure thorough mixing.

Application

Silcor DM10 is trowel applied at a minimum thickness of 2 mm. The theoretical coverage rate (not including waste) at a 2 mm thickness is approx 2.3 kg/m². Coverage rates will be reduced over rough and uneven substrates.

Always apply the entire contents of the container as soon as possible after mixing. The reaction that occurs between Part A and Part B is exothermic (gives off heat) and accelerates the curing of the membrane. Do not cover the material in the pail after it is mixed.

Note: Silcor DM10 when applied is light grey in colour. It will change colour to a light purple and then to a brown. This is due to ultra violet rays and has no effect on waterproofing properties.

Laps

Silcor DM10 should be lapped onto dry, clean, previously applied Silcor liquid membrane within 24 hours. Where previously applied Silcor is more than 24 hours old, lightly abrade with a sanding disc, wire brush or similar. The minimum lap width is 100 mm.

Clean tools and equipment with solvent tool cleaner before Silcor DM10 has cured.

UV Protection

Silcor DM10 is not designed for permanently exposed applications, it should be covered within 10 days of application.

Storage and Shelf Life

Silcor DM10 should be stored internally in un-opened original packaging. Recommended storage temperature is +5°C to +25°C. Do not store externally. Containers should not be opened until ready to use. Shelf life for for Silcor DM10 is 6 months.

NBS Specification Clause

Refer to Clause J31 130/357.

Health and Safety

Read the product label and Material Safety Data Sheet (MSDS) before use. Users must comply with all risk and safety phrases. MSDS's can be obtained from Grace Construction Products.

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