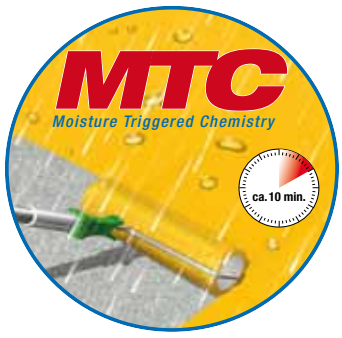
SikaRoof® MTC System

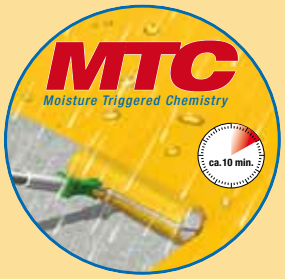
Roofing Solutions with Sikalastic® Liquid Membranes

Contractor Application Guide



SikaRoof® MTC Systems - Designed for Easy Application

Moisture Triggered Chemistry



SikaRoof® MTC (**Moisture Triggered Chemistry**) Systems incorporate a unique technology that allows the material to use atmospheric moisture to trigger the curing process. This means the waterproof membranes are capable of curing in a wide range of conditions including extreme temperature ranges and humidity variations. Unlike traditional polyurethane systems they do not release CO_2, which often causes gassing, and application is not delayed by adverse weather conditions. It is not recommended to install the **SikaRoof® MTC** systems when rain is imminent, as rainfall could affect the appearance of the product. However, once applied the membranes are waterproof and will not show an adverse reaction to water. Within the **SikaRoof® MTC** Systems is a **Sikalastic®** membrane that cures to provide completely seamless waterproof protection. Its liquid application means it can be easily applied to all complex detail areas.

Zero Flame - Zero Heat

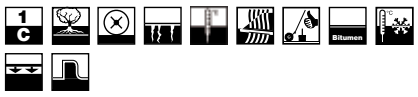
Cold applied and with no need to use a torch, hot air guns, hot gas guns or heating equipment such as bitumen boilers, **Sikalastic®** presents no fire risk during application or once in place, and gives contractors an opportunity to lower insurance premiums. Once installed the system achieves fire ratings.

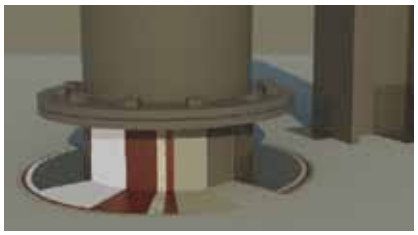
Key Benefits

- Reduced weather sensitivity during application thanks to MTC
- Easy and quick application with **Sikalastic® Reemat**
- Ideal for details and roof repair
- Reduced waste material as there are no cut-offs or backing plastic to dispose
- Low investment required for application equipment

SikaRoof® MTC Flashing

Sikalastic® can also be used in conjunction with bituminous felt to provide seamless waterproofing around all detail areas including upstands, plant, equipment, and other roof protrusions.

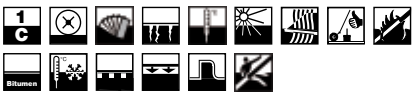


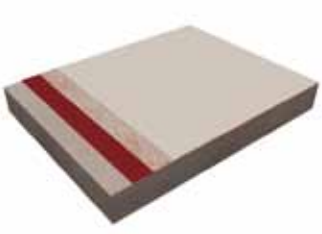


- Build-up: **Sikalastic®-601 BC** and **Sikalastic®-621 TC** reinforced with **Sikalastic® Reemat Premium**
- Layer thickness: 1.8 mm
- Consumption: ≥ 3.0 kg/m²

SikaRoof® MTC 8, 12, 18, 22

For UV stable coat, for extended life expectancy on old roofs or as reflective coating to enhance energy efficiency - or for high performance Waterproofing solutions for new construction and refurbishment projects.





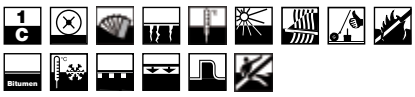
- Build-up: **SikaRoof® MTC 8**, **12**, **18** or **22** using **Sikalastic®-601 BC** reinforced with **Sikalastic® Reemat Standard** or **Premium** and sealed with **Sikalastic®-621 TC**
- Layer thickness: 0.8 to 2.2 mm
- Consumption: ≥ 1.5 kg/m²

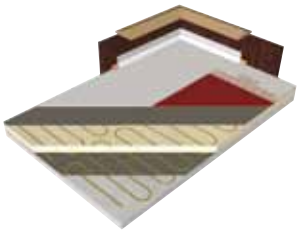
Project Related Requirements and Functions of Roofing Systems

- Single-component product
- Low-temperature stability.
- Highly elastic and crack-bridging
- Easy application by brush, roller or airless spray equipment even when accessibility is limited
- Root resistant
- Withstands mechanical loads of pedestrian and light wheeled traffic
- Fire-resistant
- Resistant to wind uplift
- UV resistant and resistant to yellowing
- Thermal-shock resistant, i.e. will not be damaged by extended or sudden thermal exposure to ice, hail, rain, direct sunlight or rapid thermal swings
- Vapour permeable
- Bonds fully to most substrates, preventing the migration of water
- Seamless waterproofing membrane
- Compatible with bituminous felts.
- Slip resistant (with quartz sand topping)

SikaRoof® MTC Cold Bonding

An insulated built-up roof waterproofing system suitable for new-build and refurbishment projects. Each component is bonded using a revolutionary cold fusion adhesive – no fire risk during application.

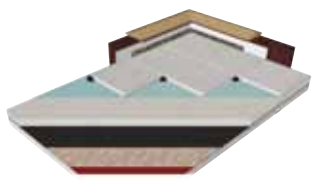




- Build-up: **Sikalastic® Vap**, **Sikalastic® Insulation** and **Sikalastic® Carrier** adhered with **Sikalastic® Coldstick**, waterproofed with **SikaRoof® MTC 12**, **18** or **22**
- Layer thickness: 1.2 to 2.2 mm
- Consumption: ≥ 2.2 kg/m²

SikaRoof® MTC Ballast

For gravel and paver ballasted roofs to provide a natural looking surface, to protect from potential damages and to offer an none combustible surface.



- Build-up: **SikaRoof® MTC Ballast** using **Sikalastic®-602 BR** reinforced with **Sikalastic® Reemat Premium** and sealed with **Sikalastic®-622 TR** or **Sikalastic®-623 DR**
- Layer thickness: 2.0 mm
- Consumption: ≥ 3.4 kg/m²

Contractor Support from Sika

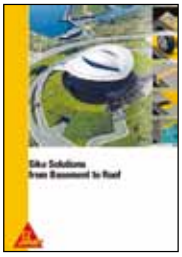
- **Sikalastic® MTC** product demonstrations
- Full application training
- Technical support from specification to completion
- Technical documentation and approvals

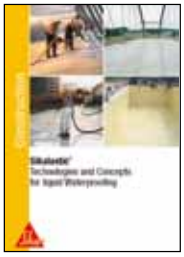
Contact your Local Sika Organization to Arrange Training

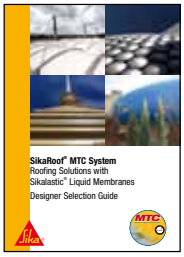
Sikalastic® Products Used in Sikaroof® MTC Systems

Product
Sikalastic®-601 BC 1 C PU based liquid membrane base coat for use in **Sikaroof® MTC 8**, **12**, **18** and **22**
Sikalastic®-621 TC 1 C PU based liquid membrane top coat - UV stable for use in **Sikaroof® MTC 8**, **12**, **18** and **22**
Sikalastic®-602 BR 1 C PU based liquid membrane root resistant base coat for use in **Sikaroof® MTC Green** and **Sikaroof® MTC Ballast**
Sikalastic®-622 TR 1 C PU based liquid membrane root resistant top coat for use in **Sikaroof® MTC Green** and **Sikaroof® MTC Ballast**
Sikalastic®-623 DR 1 C PU based liquid membrane root resistant, UV stable top coat for detailing use in **Sikaroof® MTC Green** and **Sikaroof® MTC Ballast**
Sikalastic® Reemat Unique glass fibre mat used for reinforcement in all **Sikaroof® MTC** systems
Sikalastic® Cold Stick 2 C solvent free adhesive for vapour control layers, insulation and **Sikalastic® Carrier**
Sikalastic® Carrier A carrier and levelling layer between the substrate and liquid membrane system.

Also Available from Sika







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