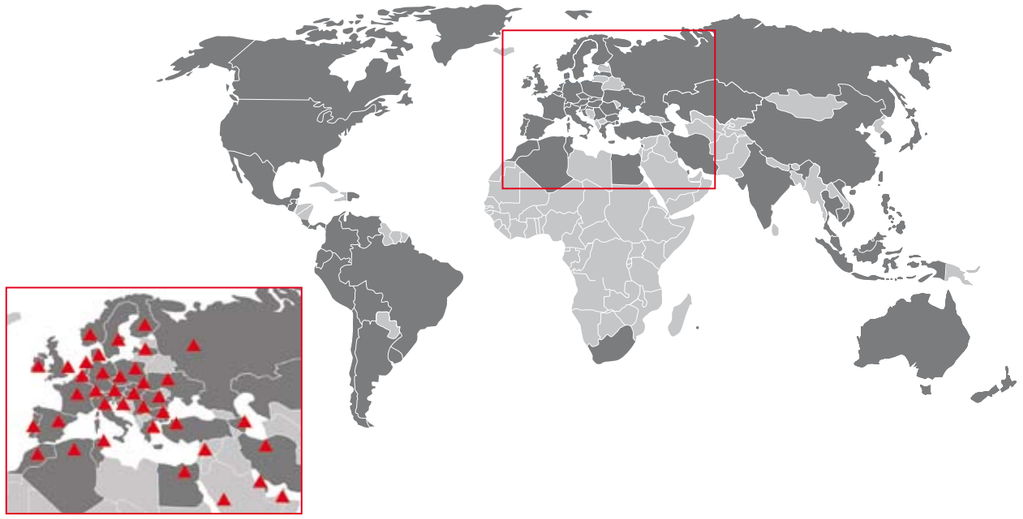
Sika® – a Global Player in Speciality Chemicals for Construction and Industry



Sika® is a globally active company in the speciality and construction chemicals business. It has subsidiary manufacturing, sales and technical support facilities in over 70 countries around the world. Sika® is the global market and technology leader in waterproofing, sealing, bonding, dampening, strengthening and the protection of buildings and civil engineering structures. Sika® has approx. 12,000 employees worldwide and is therefore ideally positioned to support the success of its customers.

Also Available from Sika

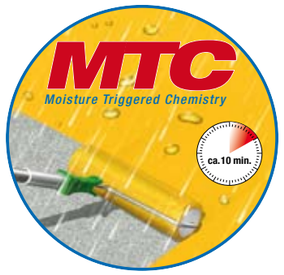
Sika Service AG
Corporate Business Unit Contractors
Industriestrasse 26
CH-6060 Sarnen
Switzerland
Phone +41 58 436 79 66
Fax +41 58 436 76 60
www.sika.com

Corporate Marketing / BU Contractors / 05.09 / jr

SikaRoof® MTC Green

Green Roof Solutions with Sikalastic® Liquid Membranes

Selection Guide



SikaRoof® MTC Green - a True Fully-Bonded System for Green Roofs

Why Green Roofs?

Green Roofs present a solution in the quest for sustainability, particularly in urban developments where the emphasis is on increasing biodiversity and quality of life. They can aid planning consent and provide many environmental and economic benefits including:

- Prolonging the life of the roof waterproofing system
- Enhancing the aesthetics of the building
- Utilising the roof space
- Improving thermal performance
- Aiding noise reduction
- Providing habitats for plants and animals
- Reducing storm water run off
- Absorbing CO_2

SikaRoof® MTC (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.

Sikalastic® MTC Green is the Right Solution for Green Roofs

SikaRoof® MTC Green, roofing solutions incorporating **Sikalastic®** liquid membranes are highly advanced root resistant polyurethane coatings, which use atmospheric moisture to trigger the curing process. They have been successfully tested to meet the requirements of DIN 4062 5.7 Root Resistance Test, proving that roots cannot penetrate through the **Sikalastic®** membrane.

Key Benefits

- **Completely seamless fully-bonded waterproofing system - preventing water migration and reducing the risk of leaks due to failure of joints**
- **Sikalastic® Root Resistant waterproofing membranes have been tested to meet the requirements of DIN 4062 5.7 Root Resistance Test**
- Cold applied - cold fusion bonded, zero heat, zero flame application
- No fire watch required during application - installed system achieves highest fire ratings
- **Sikalastic® MTC** has been independently approved by BBA
- High tensile strength - resists tear from building movement
- High elasticity - allows for greater thermal movement
- **Compatible with bitumen**
- Environment friendly, no CO_2 release

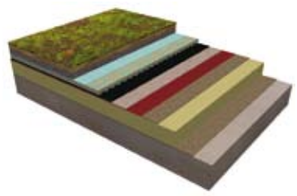
SikaRoof® MTC Green (Intensive Design)

Intensive Green Roof System designs are versatile, allowing the roof area to be utilised as highly aesthetic areas for recreation, public access or simply to be admired from surrounding buildings.

- Build-up: **SikaRoof® MTC Green**, drainage layer, filtration layer, soft / hard landscaping.
- Layer Thickness: 2.0 mm
- Consumption: ≥ 3.4kg/m²

SikaRoof® MTC Green (Extensive Design)

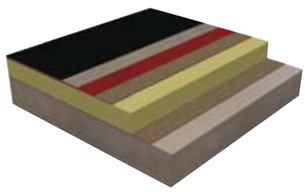
Extensive Green Roof Systems are an ideal solution to provide an aesthetic, low maintenance ecological feature, which can be admired from surrounding buildings.



- Build-up: **SikaRoof® MTC Green**, drainage layer, filtration layer, sedum substrate, pre-grown sedum blanket.
- Layer Thickness: 2.0 mm
- Consumption: ≥ 3.4kg/m²

Warm Roof Design

Warm roofs are ideally suited to Extensive Green and most Intensive Green Roof Systems using **SikaRoof MTC Green**.



- Build-up: **Sikalastic® Vap**, **Sikalastic® Insulation** and **Sikalastic® Carrier** adhered with **Sikalastic® Coldstik** and sealed with **SikaRoof MTC Green** using **Sikalastic®-602 BR** reinforced with **Sika® Reemat Premium** and sealed with **Sikalastic®-622 TR** or **Sikalastic®-623 DR**
- Layer Thickness: 2.0 mm
- Consumption: ≥ 3.4kg/m²

Inverted Roof Design

Inverted roofs can be used with all types of Green Roof designs using **SikaRoof® MTC** Green as they can withstand extremely high loading.

- Build-up: **SikaRoof® MTC Green** using **Sikalastic®-602 BR** reinforced with **Sika® Reemat Premium** and sealed with **Sikalastic®-622 TR** or **Sikalastic®-623 DR**, Inverted Roof Board Insulation.
- Layer Thickness: 2.0 mm
- Consumption: ≥ 3.4kg/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
- 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.