BROCHURE

SILICONE ROOFING TG

THE LIQUID ROOFING SYSTEM



GLOBAL PAINT
PROFESSIONAL

A CLEAR VIEW ON PAINT

FUTURE ORIENTED ROOFING

Future-oriented roofing means making conscious choices. Choices that extend beyond today's project. Working with a system that contributes to more sustainable buildings. That creates healthier working conditions. And that delivers on its technical promises. Not just one of those three. All three at once. That is what Silicone Roofing TG, the liquid roofing system, stands for.

A NEW PERSPECTIVE ON THE FLAT ROOF

The flat roof. Long regarded as a necessary part of the building: functional, but underappreciated. Yet it is precisely the roof that offers enormous opportunities for the climate, the building, and the people who work there. Silicone Roofing TG makes those opportunities a reality. A liquid roof coating that does more than just protect

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LOOK AHEAD

The construction and real estate sector faces a major challenge: reducing CO_2 emissions and meeting climate targets by 2030. Clients are seeking solutions that demonstrably make a difference. Silicone Roofing TG provides that proof. The white liquid roof coating reflects sunlight and cools buildings. This reduces energy consumption and mitigates urban heat island effects. A Life Cycle Assessment provides insight into the environmental impact over the entire lifespan. Documented in an Environmental Product Declaration (EPD). This transparency directly contributes to higher BREEAM and GPR scores. That is valuable—for the client and for the building. Additionally, the existing roofing remains in place. No demolition waste. No unnecessary transport. And after the lifespan? Then a new layer is applied—without removing anything.

STRONG ROOF, EASY WORK

The way a roof is installed is just as important as the end result. Working with bitumen means hot fumes, open flames, and heavy physical strain. Silicone Roofing TG breaks that pattern. The system is installed without fire, the material is lighter, and application is simpler. This significantly reduces the physical strain and directly contributes to the long-term employability of professionals. Thanks to the white substrate, the roof surface stays cooler on hot days. And you can really feel the difference. Silicone Roofing TG is installed silently. Ideal for buildings in use. The result: safer, cleaner, quieter, and faster work.

WHITE IS THE NEW BLACK

Ultimately, it comes down to what the system can technically handle. And that's where Silicone Roofing TG proves its worth. Seamless, vapor-permeable, and elastic. Leaks at overlap joints are a thing of the past. Moisture from the structure can escape, reducing the risk of blistering. The expected lifespan: 25 years. And another 25 years after that with just one new layer. To ensure a strong foundation, it is important to critically assess the existing bitumen layer. Installers are carefully trained for this. The system adheres to the most common roofing materials and is widely applicable in renovation projects—from the entire roof surface to details and repairs. Product quality is always consistent. Same viscosity. Same workability. Same final performance. Every bucket, every project. Because the application process is less complex, a broader team can be deployed. A significant advantage in a market where skilled workers are scarce.

ACHIEVE CLIMATE GOALS

All building owners are affected by this: reducing CO2 emissions to meet the 2030 climate goals.
There are several benefits to using white Silicone Roofing TG.



COOLING BUILDINGS

Temperatures rise significantly in the summer. This is true both outdoors and inside buildings with flat roofs. In the Netherlands, urban heat islands are becoming an increasingly important topic. White Silicone Roofing TG cools roofs and the indoor climate [1]. If all roofs in the city were white, it would lower the city's temperature by approximately 2.5 °C [2].

REDUCING ENERGY COSTS

In summer, the temperature of a black roof surface can reach up to 80°C. This increases the indoor temperature, and air conditioning systems have to work overtime to maintain a comfortable living and working environment. Cooling consumes a lot of energy and results in a high energy bill. Silicone Roofing TG roof coating (the white variant) lowers the temperature of the flat roof to approximately 40°C [3].



HIGHER YIELD

Solar panels perform less efficiently when they get hot. It is better to cool the area around them. A white roof covering reduces heat absorption and maximizes the roof's reflectivity. The lower ambient temperature increases the output of solar panels[4].

EXTENDING LIFESPAN

Silicone Roofing TG significantly extends the service life of an existing flat roof. Applying two layers of Silicone Roofing TG Finish results in an expected service life of 25 years. After 25 years, the lifespan is extended by another 25 years with a single new coat. The liquid roof coating is applied to existing bitumen, EPDM, or synthetic roofs. With Silicone Roofing TG, there is no need to remove or replace the existing roof covering.

EXTENDING LIFESPAN

25 YEARS PLUS ANOTHER 25 YEARS

The lifespan of the old roof covering is significantly extended without removing the old roof covering.

SILICONE ROOFING TG ON EXISTING ROOFING

The existing roofing remains in place.
This has several advantages:

- less inconvenience during installation
- no waste from removing the old roofing
- no risk of leaks during the work
- no fire hazard



MULTI-YEAR MAINTENANCE

Silicone Roofing TG has an expected service life of 25 years. After 25 years, a single coat of Silicone Roofing TG Finish is sufficient to potentially extend the lifespan by another 25 years. With a minimum weight of 600 grams per square meter, the lifespan is doubled. If repairs are needed, they can be easily carried out in combination with Silicone Roofing TG Detail Fleece.

MINIMAL LOAD ON ROOF SURFACE

The two-layer system is applied to the substrate with a layer thickness of 1,000 microns (1.2 kg) per square meter. Compared to conventional roofing materials, this results in minimal load on the roof surface. This is particularly beneficial for the roof structure. Partly for this reason, Silicone Roofing TG is ideal for use under solar panels. Every gram of weight that can be saved is welcome. Fleece.

UV RESISTANT

Silicone Roofing TG has a high UV resistance, which ensures a long lifespan.

CHOICE OF COLOURS

Silicone Roofing TG Finish is available in three colors: white, light grey, and black. The properties of the coating are the same. White has the highest reflectance value.

SUSTAINABLE WITH ENERGY

SOLAR PANELS WORK BETTER

The temperature decreases significantly with a white rooftop. The maximum temperature of a black roof is 800°C, whereas a white roof generally does not get hotter than 400°C. The decrease in temperature of the underlying surface is advantageous for the energy yield of solar panels.



COOLER SOLAR PANELS, HIGHER EFFICIENCY

Solar panels can handle sunlight very well but are less resistant to heat. For every degree above 25°C, the output of a solar panel decreases. Cooling the environment contributes to a higher efficiency of a solar panel [4].

Monopaneel: +>7%
Bifacial paneel: +>15%

COOLER SOLAR PANELS, HIGHER EFFICIENCY

The roof is cooler, so it is less warm inside [3]. Therefore, the air conditioning system does not need to work as hard. This reduces energy consumption, reducing CO2 emissions because a lot of energy is still sourced from fossil fuels. The efficiency of the air conditioning also increases. The cool environment ensures more efficient air conditioning operation[5].

INCREASED SATISFACTION, FEWER COMPLAINTS

Summers are getting warmer. Residents and employees complain about the heat indoors. Not everyone has air conditioning. With a white roof surface, the temperature inside decreases significantly, up to approximately 3°C [1,6]. This is without using energy from air conditioning systems. A lower temperature improves the living and working environment for residents and employees. As a result, overall satisfaction and living and working conditions improve.

Cooling a space consumes less energy.

This leads to an energy saving of up to 0.8 kWh per m 2 per year[3].

Air conditioners are subjected to less strain. Their lifespan is extended.

GEEN LEKKAGES

A WATERPROOF FINISH

Leaks in flat roofs are a common problem. The challenge is locating the source of the leak. Applying Silicone Roofing TG to the existing roof surface makes the roof watertight. This is thanks to the six properties listed below.

LESS STRAIN ON THE ROOF

Finishing the roof surface with white Silicone Roofing TG results in significantly less stress caused by temperature fluctuations. By lowering the surface temperature, the tensile force exerted on existing joints during shrinkage is greatly reduced. Combined with its high elasticity and seamless finish, this creates the perfect solution for a permanently waterproof roof.



STRONG DETAILS

Details such as metal and plastic surfaces are first primed with Silicone Roofing TG Detail Primer. The detailing is then reinforced with Silicone Roofing TG Detail Fleece in combination with Silicone Roofing TG Finish. Penetrations, outlets, open joints, and skylights are strengthened. After this, the entire roof is finished with Silicone Roofing TG Finish.

EASY REPAIR

Roof repairs are carried out in a simple and efficient way. Silicone Roofing TG Finish is perfectly overcoatable. Larger defects are repaired using Silicone Roofing TG Finish in combination with Silicone Roofing TG Detail Fleece. By embedding the Silicone Roofing TG Detail Fleece, a highly durable yet flexible reinforcement is created.

WATER REPELLENT

Silicone Roofing TG is completely hydrophobic. Standing water load is not a problem.

ELASTIC

Silicone Roofing TG is elastic. All tensions are absorbed.

UV RESISTANT

Silicone Roofing TG is highly UV resistant. Degradation occurs slowly, thereby enhancing its lifespan.

SEAMLESS

Silicone Roofing TG forms a seamless membrane. This eliminates leaks at overlap joints.

ROOT GROWTH SUSTAINABLE

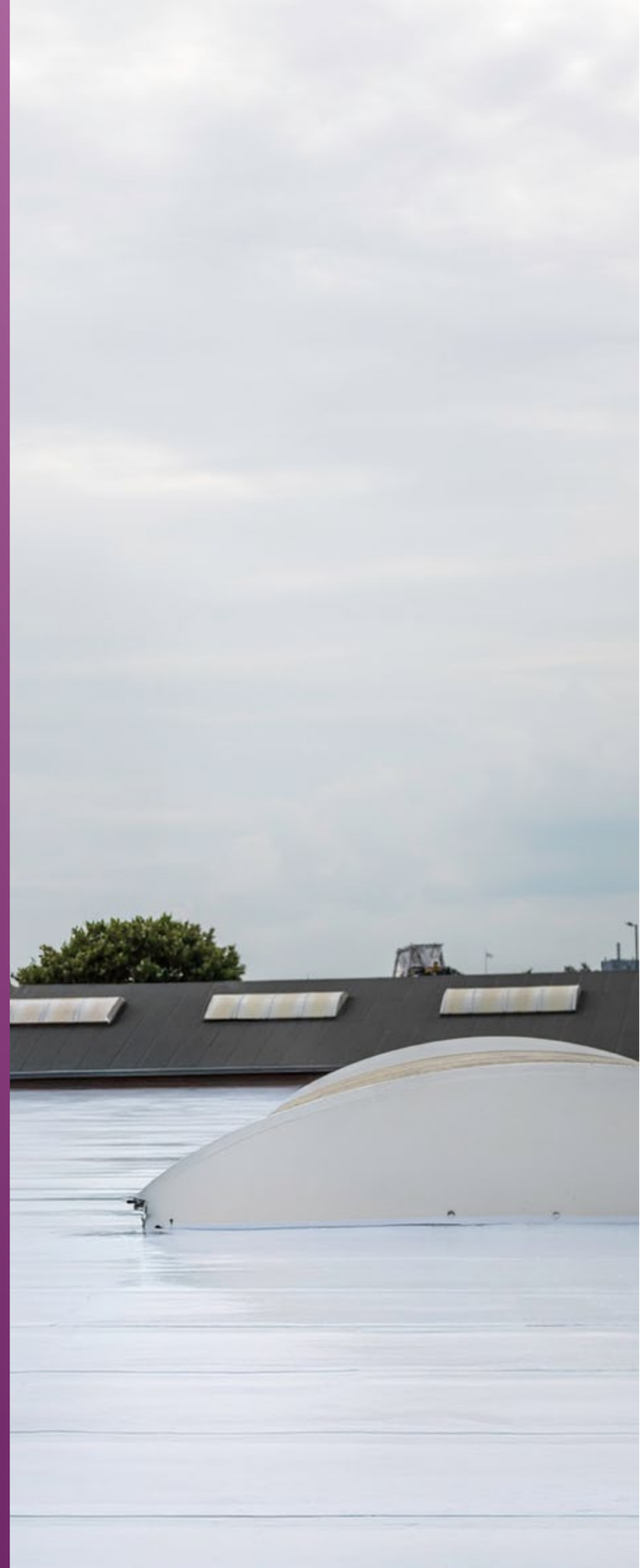
Silicone Roofing TG can be applied on roofs with sedum cassettes. The roots do not grow through the coating.

SIMPLE REPAIRS

Silicone Roofing TG is perfectly paintable. Repairs can be carried out quickly and easily.

IDEAL FOR RENOVATIONS

Silicone Roofing TG has been developed for renovation projects. It is designed for existing flat roofs that deserve a longer lifespan. Silicone Roofing TG is not only suitable for bituminous surfaces but also adapts very well to the most commonly used roof finishes. It can also be applied to EPDM and PVC roofing materials, making it versatile for a wide range of renovation projects.



MULTIPLE SUBSTRATES

Silicone Roofing TG can be applied on different surfaces, such as APP-bitumen, SBS-bitumen, EPDM, PVC, concrete, wood, and stainless steel. This makes Silicone Roofing TG versatile for a variety of projects.



A LIGHTWEIGHT SOLUTION

The entire system is applied with a coating thickness of 1000 microns (1 mm). A total of 1.2 kilograms per square meter. This makes the system lighter than the usual roof coverings. Only minimal weight is added to the structure.

SILICONE ROOFING TG

- water repellent
- UV resistant
- elastic
- root growth resistant

SILICONE ROOFING TG DETAIL PRIMER

- Suitable for ferrous and non-ferrous metals and plastics
- Corrosion-resistant
- Quick-drying

SILICONE ROOFING TG FLEECE

- Strengthens the joints between different materials
- Attention to critical details and connections
- Effective repair of open seams and blisters

SILICONE ROOFING TG FINISH

- one component
- moisture-curing
- salt and chemical resistant

COLORS

Silicone Roofing TG Finish is available in 3 colors: white, gray, and black.



REFLECTION VALUES SILICONE ROOFING TG

WHITE

Total Sun Reflection (TSR)	90%
Solar Reflection Index (SRI)	111%

GREY

Total Sun Reflection (TSR)	40%

BLACK

Total Sun Reflection (TSR)	8%

The application of Silicone Roofing TG is completely flame-free. No torch, no open flames. This means there is no risk of fire during the work—creating a safer working environment for every roofer, as well as for the surrounding area.

The absence of open flames offers another important advantage. Insurers are imposing increasingly strict requirements on working with open flames on roofs. Flame-free application reduces risk and helps avoid high insurance premiums—one less concern to worry about.

In addition, flame-free application is more sustainable. No gas is required, which reduces CO_2 emissions and eliminates the need to handle heavy gas tanks. This makes the work lighter and easier.

Silicone Roofing TG is therefore a perfect fit for the forward-thinking roofer: safe, efficient, and future-oriented.



ASSESSING LOAD-BEARING CAPACITY

A good result starts with a sound roof. That's why every project begins with a thorough assessment of the existing roof surface. This inspection determines whether the substrate is suitable for renovation with a liquid roofing system. Silicone Roofing TG is only applied when the roof is structurally sound, stable, and technically fit for purpose.

The system is therefore never applied indiscriminately. On the contrary, only roofs that meet the required quality standards are treated. This approach provides confidence for every roofer—and for every client. First assess. Then renovate. With confidence.

A ROOF THAT LASTS LONGER

An existing roof finished with Silicone Roofing TG also provides full scope for a new bituminous roof build-up. With proper preparation, the roof can be renewed without any demolition work.

By first installing a mechanically fixed underlayer, a stable base is created. On top of this, a new bituminous layer can be applied. Silicone Roofing TG remains intact and forms a solid, seamless, and durable substrate.

MORE THAN A REPAIR SOLUTION

The system is not a replacement for the substrate, but a smart and sustainable addition that gives the existing roof a new lease of life. It is a full-scale solution for entire roofs—not just for repairs.

Liquid roofing is sometimes seen as a repair product. In reality, Silicone Roofing TG is a complete, durable roofing finish.

Its strength lies in its combination with the existing substrate.

The system forms an additional protective layer over the existing roofing, creating a durable, elastic, and water-resistant whole.

Silicone Roofing TG bonds seamlessly to the substrate, accommodates movement and stresses, and provides long-term protection against UV radiation, water, and temperature fluctuations.

APPLICATION

4 STEPS TO A NEW ROOF

The application process consists of four steps. The complete application instructions for Silicone Roofing TG are available upon request via siliconeroofingtg@globalpaint.com.



1. THE ADHESION TEST

To assess the load-bearing capacity of the substrate, an adhesion test is always carried out first. Silicone Roofing TG Detail Fleece is applied to the substrate and, after a minimum of 16 hours, pulled out of the applied layer. If a peak force of at least 4 kg is achieved, the adhesion test is considered successful.

2. THE CLEANING

The entire surface must be carefully cleaned using a high-pressure washer. This is best done with a surface cleaner and water at a maximum temperature of 60°C. In some areas, standing water may remain. Remove this using a wet vacuum cleaner. In this way, not only the water but also any contamination is removed in one single step.



3. THE PRE-TREATMENT

To achieve adhesion on metal and plastic substrates, Silicone Roofing TG Detail Primer is used. Penetrations and vulnerable detailing areas are pre-treated with Silicone Roofing TG Detail Fleece. The combination of Silicone Roofing TG Finish and Detail Fleece provides a highly durable yet flexible reinforcement. This ensures that detailing areas are protected and built to last for many years to come.

4. THE FINISHING

The roof surface is finished with 1000 microns of Silicone Roofing TG Finish, applied in two layers of 500 microns each. In total, 1.2 kilograms is applied per square metre of the roof surface. Silicone Roofing TG Finish can be applied using a roller, spray equipment, or the Tank Spreader.

A BETTER LIVING ENVIRON-MENT

Cities are becoming increasingly warmer. Compared to non-urban areas, the difference can reach 7°C [2] in the evening. Urban heating significantly reduces residential, living, and working comfort. All cities in the Netherlands are dealing with this issue. Measures are needed to cool down the city and buildings.



URBAN HEAT ISLAND EFFECT

Cities are becoming increasingly warmer. In the summer, the temperature rises. Buildings heat up both on the inside and outside. The heat has an impact on a healthy and comfortable living environment for humans and animals. Urban heat will continue to increase in the coming years.

3%

3% consists of city environ-ments

70%

of all energy is consumed by cities

75%

of all CO_2 emissions, originate from cities

HIGH ENERGY CONSUMPTION - HIGH COSTS

Living and working comfortably in the summer requires a lot of cooling and air conditioning systems working overtime. This uses a lot of fossil energy. With the current energy prices, it also costs a lot of money. A cool environment is important for supermarkets, cooling centres, shopping centres, etc. Innovative solutions that reduce energy consumption are more than desired.

REDUCING ENERGY - MAJOR CO2 IMPACT

White roofs contribute to cooling indoor spaces and cities. The NYC CoolRoofs project has been around in New York for many years. The goal is to make all flat roofs in New York white in order to reduce energy consumption and lower the temperature in the city. This, in turn, has a positive effect on reducing CO2 emissions, which is an important objective for governments, businesses, institutions, and individuals.

17 SUSTAINABLE GOALS FOR A BETTER WORLD

The United Nations has 17 Sustainable Development Goals. They form a global compass for societal challenges in the future.



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GOOD HEALTH AND WELL-BEING

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AFFORDABLE AND SUSTAINABLE ENERGY

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SUSTAINABLE CITIES AND COMMUNITIES

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CLIMATE ACTION

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PARTNERSHIP TO ACHIEVE OBJECTIVES

SILICONE ROOFING TG CONTRIBUTES TO THE OBJECTIVES

Whitening roofs with Silicone Roofing TG contributes to at least 5 out of the 17 Sustainable Development Goals by making buildings more sustainable, improving the living, working, and environmental conditions in buildings, and reducing urban heat.

THE CLIMATE OBJECTIVES IN THE NETHERLANDS

The Dutch climate objectives are set out in the national Climate Law.

- Emission of greenhouse gases by 49% in 2030
- Emission of greenhouse gases by 95% in 2050

KNOWLEDGE AND SKILL

KENNIS GEEFT VERTROUWEN

Knowledge is the foundation of success. We train applicators and dealers ourselves to become professionals who truly know what they are doing. The training goes beyond the Silicone Roofing TG system alone. Every certified applicator or dealer becomes a fully qualified partner and advisor in flat roofing. Advising on and improving the sustainability of roofs is therefore carried out exclusively by skilled professionals. Every client can rely on that.

KEURMERKEN

Silicone Roofing TG Finish has been independently tested for durability and is resistant to flying fire. The white Finish has been tested for its solar reflectance performance.

Sustainability:
NEN-EN 1297-1:1994

Fire resistance:
EN 13501-5:2016

Total Sun Reflection (TSR):
111% according to ASTM-E1980

GUARANTEED TO BE WATERPROOF

Roofing should provide protection; protecting it from water is the most important job. You can rely on this, as Silicone Roofing TG has been tested against various quality standards. As a result, Silicone Roofing TG meets the Dutch quality requirements and complies with the Building Decree. We also offer a 10-year product guarantee as standard. An insurance scheme can also be put in place if required.



GLOBAL PAINT PROFESSIONAL

A BRAND OF GLOBAL PAINT PRODUCTS

In Boven-Leeuwen, in the Maas and Waal region, lies the factory of Global Paint Products. This is where the liquid roofing system of Global Paint Professional is developed and produced. It is a modern facility where qualified specialists ensure consistent, high-level quality. The liquid roofing system is manufactured with the lowest possible environmental impact and powered entirely by renewable energy. Global Paint Products also operates a factory in Curaçao for the Caribbean region. Here, exceptionally high demands are placed on product quality due to the severe exposure to sun, wind, and salt. This makes Global Paint Products' innovations among the best in their class.

GET IN TOUCH

We would be happy to provide advice on the sustainability of buildings with flat roofs.

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WHITE ROOFS ARE COOL

We think so too. White roofs are becoming increasingly popular. Make sure you're ready. With Silicone Roofing TG, you can enjoy all the benefits. Make it beautiful, make it white. Join us in promoting sustainability.

GLOBAL
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PAINTING SMILES

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