Everything at a glance

KEMPER SYSTEM

KEMPEROL® FALLSTOP
Instructions for use

Please note!

Make sure the skylight domes you wish to coat are not damaged (no holes, cracks, etc.) and have been installed on the roof in line with the relevant instructions of the respective manufacturer.

The substrate temperature must be at least 3 K higher than the dew point temperature. Substrate temperature: At least +5°C and relative air humidity: < 80%.

During application, always wear fall protection equipment, safety glasses, gloves, etc. Please ensure good and constant ventilation at the workplace during and after application to guarantee even curing.

Cleaning

Old and weathered skylight domes must be cleaned carefully using a mop and water prior to application. Then thoroughly clean the skylight dome using a lint-free cloth and KEMPERTEC® FALLSTOP Cleaner in order to remove any loose particles and substances from the substrate that may reduce adhesion. You can start coating the skylight dome after approx. 15 minutes once the cleaner has fully evaporated.

Cleaning

New and unweathered skylight domes must be cleaned carefully using a lint-free cloth and KEMPERTEC® FALLSTOP Cleaner. Only start coating the skylight dome once the cleaner has fully evaporated (approx. 15 minutes).

Masking

When coating skylight domes with a frame, please remember to also coat the upper surface of the frame. This means the adhesive masking tape must be fitted below the frame. Only remove the masking tape once the material is sufficiently dry to prevent any "runs" or "drips".

Calculations

The required amount of material must be calculated prior to application. This task involves measuring the size of the skylight dome. Use the calculation table to work out the amount needed.

Calculation table
The correct amount of material when coating a skylight dome is 1.6 kg/m², which must be applied evenly in four steps of 400 g/m². Application time per layer/square metre is approx. 10 minutes.

Calculation of the skylight dome				
Length m	x	Width m	=	m²
Calculation of the total required material quantity				
Carry over m²	x	1.6 kg/m²	=	kg
Calculation of the required material quantity per layer				
Carry over kg	:	4	=	kg

Coating

Stir the material after opening the container.

Coating

It is then advisable to weigh the material individually for each step based on the square metre size of the skylight dome (**400 g/m²/work step**).

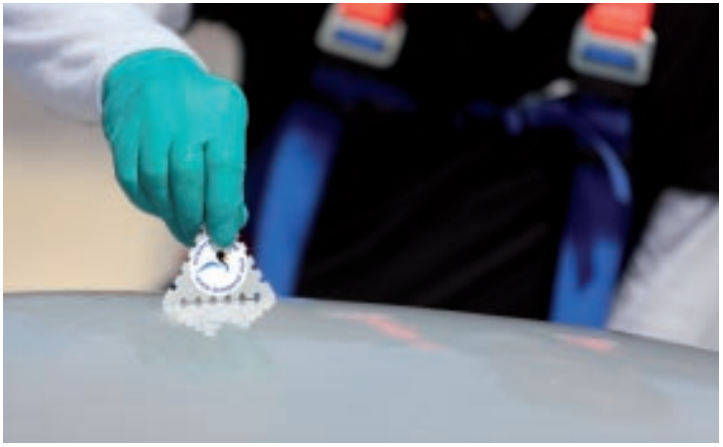
The material is either gradually poured onto the skylight dome or applied directly from the container. Distribute the material using a foam roller in a criss-cross fashion.

Coating

The material must be applied evenly and free of bubbles horizontally and vertically. **Practical tip:** When applying the material, the foam roller should work silently, as roller noises are an indication of insufficient material application.

The lower frame/edge of the skylight dome is coated using a foam roller or brush. Brush any material that has run down the frame/edge upwards
Avoid material build-up!

Coating



Note: At the end of each work step, the applied material is gauged at various points using the **KEMPERTEC® V4A measuring comb** (400 g/m² correspond to 400 µm).

The liquid material may "run" and "drip" depending on the shape and positioning of the skylight dome. Therefore, brush over the wet material several times after a few minutes, always working from bottom to top. This guarantees an even layer thickness over the entire skylight dome.
Depending on the weather conditions, the material is rainproof and can be recoated after approx. 4 hours.

Repeat three times

Repeat the coating process three times:
– Pour out a sufficient quantity of material,
– distribute the material in a criss-cross fashion and
– use the KEMPERTEC® V4A measuring comb to check the applied material quantity.
The cured layer thickness after the fourth work step must be between 0.7 and 0.9 mm.

Prior to the fourth work step

KEMPEROL® FALLSTOP seal

The KEMPEROL® FALLSTOP seal, displaying the name, company and date, must be affixed to the skylight dome prior to the fourth work step…

… and coated with KEMPEROL® FALLSTOP.

Fall-through protected

This ensures the easy recognition of **a skylight dome coated with KEMPEROL® FALLSTOP.**

The material is fully cured and fall-through protected after seven days.

Optional measurement

If necessary, a **non-destructive** before/after ultrasound measurement can be carried out to determine the layer thickness of KEMPEROL® FALLSTOP **once it is fully cured**. The ultrasonic thickness gauge is used to measure the correct layer thickness of between 0.7 and 0.9 mm.

KEMPEROL® FALLSTOP

Uses
- Transparent coating to produce fall-through protection at weathered and unweathered skylight domes made from, e.g., PMMA, PC, PETG, GRP (also suitable for SHEV skylight domes)

Key benefits
- Ready for use
- Light fast
- High level of transparency
- Only slight reduction of the light transmission level (4.5%)
- Fall-through protection tested to GS Bau 18
- High level of elasticity (elongation in accordance with DIN 53504 > 250%)
- Fall-through protection to GS Bau 18 at –10°C
- UV and weather resistant
- Minimum protection: 5 years

Composition
Single component, transparent, polyurethane-resin based coating.

Standard pack sizes
3 kg and 10 kg container

Shelf life and storage
Store unopened in a cool, dry and frost-free place. See label for use before date

System application
1.6 kg/m². Apply 400 g/m² of material evenly during each of the four work steps (corresponds to 400 µm on the KEMPERTEC® V4A measuring comb)

Physical properties
Form: liquid
Colour: bluish transparent / shiny
Application time* [min].....approx. 60
Rainproof [h] .....approx. 4
Next coat can be applied* after [h] .....approx. 4
Fall-through protection* after [d] .....approx. 7
Cured* after [d].....approx. 7

KEMPERTEC® FALLSTOP Cleaner

Uses
- Special cleaner for commercial skylight domes made from, e.g., PMMA, PC, PETG, GRP

Key benefits
- Ready for use
- Low in solvents
- Fast evaporating
- Cleans intensively and streak-free

Composition
Liquid cleaner based on an alcoholic solution.

Container size
500 ml spray bottle

Shelf life and storage
Store in a cool, dry and frost-free place

System application
According to the level of soiling

Physical properties
Form: liquid
Can be coated* after [min].....approx. 15

* Measurements at 23°C and 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

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Watch the application video at: www.kemperol-fallstop.com

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