

## 1. Installation on Bituminous Roofing Membranes

Use a broom to sweep clean the surface to be covered. When installing in a single-layer, loose overlap configuration, lay mats with 5 cm width overlap and 10 cm length overlap over the adjacent mats. In length an offset configuration is necessary to the mats sidewise.

If installing on green roofs, allow 10 cm overlap on all sides.

If heavy traffic or stress is expected in the application at hand, install two layers of mats in an offset configuration, allowing an overlap of 10 cm on all sides.

At outer perimeters of surfaces covered by **KRAITEC® top FiRe**, install mats with their outside edge level with the upper surface of the subsequent sand, gravel or other covering layer.

Do not permit water accumulation on or under the mats, i.e. ensure adequate water drainage (at least 2% slope).

**KRAITEC® top FiRe** can be cut with a commercial cutter. When cutting, make sure that the existing layers are not damaged!

## 2. Installation on Plastic Membranes

If the plastic membrane and **KRAITEC® top FiRe** are chemically compatible, proceed as described above. If they are not compatible, include as well a separating layer between them. Consult the roofing membrane manufacturer for assessment of chemical compatibility and specification of the type of insulating layer to be used, if required.

## 3. Installation on Balconies and Terraces

When laying **KRAITEC® top FiRe** on balconies or terraces, install mats in the direction parallel to the shorter side of the balcony or terrace. Also follow all other instructions given above for installation over bituminous and plastic membranes and in section 4 below.

#### 4. Point and Line Stresses

If weights bearing on specific points or lines are expected in the application, cushion them with **KRAITEC® top FiRe** pads or strips. Such localized stresses can be encountered e.g. under heavy objects (air conditioning units, etc.) and support columns or frames which bear on the roof.

If such objects or supports are to be installed over the mats, please consult the manufacturer for specific advice.

#### 5. Recommended Thicknesses

The required thickness or thicknesses in a specific application must be specified by the design engineer or architect.

As a general rule of thumb, a two-layer system of **KRAITEC® top FiRe** installed in an offset configuration provides better protection than does a single-layer system of the same overall thickness.

#### 6. Please Note:

Immediately after being placed, **KRAITEC® top FiRe** structural protection mats should be covered (weighted down) e.g. with gravel, sand, soil or paving slabs to avoid dimensional changes due to stress relaxation and thermal expansion or contraction.

If **KRAITEC® top FiRe** is installed without full surface covering, e.g. when used as walkway mats or temporary protection under building scaffolds, allow for shrinkage and/or contraction by increasing overlap accordingly.

The compatibility with the surface the mats are placed on needs to be checked to prevent any chemical or mechanical interaction. Eventually a separating layer must be used.

The performance and expected service life of **KRAITEC® top FiRe** without covering have not been established yet ; please refer to the disclaimer below.

#### DISCLAIMER:

With our information we desire to advise you to the best of our knowledge and belief based on our trials and experiences. However, KRAIBURG Relastec GmbH & Co. KG cannot accept a warranty for the processing result in the specific case, due to the variety of use possibilities, and the storage, processing, and construction site conditions for our **KRAITEC®** products that are beyond our control. The customer must execute his own tests.

Our technical customer service organization is available to you.

This installation instruction is not subject to change management! No liability accepted for errors or omissions.  
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