

▮ **protect** - Heavy-Duty Structural Protection Mats

Installation Instructions

No. 9204 - R - 10

Issue: Jan. 2011

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.

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® protect**, 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.

2. Installation on Plastic Membranes

If the plastic membrane and **KRAITEC® protect** 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® protect** 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® protect** 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.

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5. Recommended Thicknesses

6 mm	when subjected to light traffic and stress
8 - 10 mm	when subjected to medium traffic and stress
12 - 18 mm	when subjected to heavy traffic and stress

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® protect** 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® protect** 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® protect** 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 performance and expected service life of **KRAITEC® protect** without covering have not been established to date; please refer to the disclaimer below.

DISCLAIMER:

The information and data given above are provided to the best of our knowledge based on our test results and experience to date. However, due to the multitude of possible applications and storage, processing and site conditions which are beyond our control, this information and data shall not be construed as a guarantee of any kind for installed KRAITEC® products or their performance in an intended application. Users are advised to carry out their own tests to evaluate suitability for their specific application.

Our Technical Service department will gladly provide further information or assistance as required.

This data sheet is not subject to an update service. All information and data are provided without engagement on our part.

Please visit www.kraiburg-relastec.de to download the currently valid version.