



## CHARACTERISTICS

**CROXON PROTECT** is the structural protection mat for high-quality waterproofing systems and insulation systems in accordance with DIN 18195 Part 10.

**CROXON PROTECT** provides outstanding protection of waterproofing systems on flat roofs, green roofs, terraces, parking garage decks, in bridge and road construction and in landscaping.

**CROXON PROTECT** equally successful in other application sectors including below-ground structures such as underground garages as well as waterways, dikes and dams.

## SPECIFICATIONS

Material	Polyurethane-bonded recycled rubber granulate.
Colour	Black.
Thickness	10, 15 y 20 mm.
Dimensions (mats)	1000 x 1200 mm
Hardness	50 Shore A.
Static stiffness	95 MM/m <sup>3</sup> .
Dynamic stiffness	48,4 MM/m <sup>3</sup> (10 mm mat).
Tensile strength	0,3 N/mm <sup>2</sup>
Compressive strength	0,9 N/mm <sup>2</sup>
Puncture resistance:	1300 mm (SIA) (maximum drop height without any perforation in the waterproofing membrane below). 10 % aprox. under 40 Tn/m <sup>2</sup> 20 % aprox. under 90 Tn/m <sup>2</sup>
Deformation under traffic load:	40 % aprox.
Elongation at break:	B2
Reaction to fire	- 30 °C a + 80 °C.
Service temperature range	Conditionally resistant to acids and bases.
Chemical resistance	
Improvement impact sound under A concrete slab of 240 kgs:	
10 mm thickness	ΔL = 17 (dB).
15 mm thickness	ΔL = 19 (dB)
20 mm thickness	ΔL = 21 (dB)
Thermal conductivity	λ = 0,15 W/m K..
Environmental resistance	rot-resistant and water-resistant.
Water vapour permeability	sd = 0,18 m (DIN EN ISO 12572)

## INSTALLATION

### **Installation on Flame-Welded Bituminous Sheet**

Use a broom to sweep clean the surface to be covered. When installing in a loose (enjoined) single-layer configuration, lay mats with 5 cm width overlap and 10 cm length overlap.

If heavy traffic is expected over the mats, install two layers of mats in an offset configuration. In this configuration overlap is not required, i.e. the mats should be butt jointed.

The top material should extend upward 10 cm on all sides around the perimeter of the surface covered.

### **Installation on Plastic Liners**

If the plastic liner is chemically compatible with top, follow the procedure given above.

If this is not the case, include a separating layer between them. Use a PE or PP geotextile with a minimum area weight of 300 g/m<sup>2</sup> as the separating layer

### **Thickness Recommendations**

**Clempol Protec 10** when subjected to light compressive loading, e.g. on standard flat roofs with gravel covering

**Clempol Protect 15** when subjected to medium compressive loading, e.g. on terraces, roofs of underground garages, car park decks, lightweight green roofs (approx. 10 cm soil cover, without personnel access), planters

**Clempol Protect 20** when subjected to heavy compressive loading, e.g. on landscaped green roofs (approx. 50 cm soil cover, with personnel access), roof gardens

As a general rule of thumb, a two-layer system installed in an offset configuration provides more protection than a single-layer system of equal overall thickness.

### **Please Note:**

Immediately after installation, cover top with gravel, sand, soil, paving slabs, etc. to avoid thermal expansion or contraction and wind uplift.

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