



Sealex

Waterproofing Systems, Sealers & Sealants

Spectra roof

THE EXCEPTIONAL PRODUCT PROPERTIES OF SPECTRAPLAN ROOFING SHEETS

SpectraROOF® TPE Roof Engineering is a unique concept developed using a new generation of TPE polymers. TPE stands for thermoplastic elastomers or thermo-fusible polyolefins with rubber characteristics. The SpectraROOF® concept encompasses all the aspects used for the engineering of single-ply flexible TPE roofing systems, for all types of roofs.

Reliable and secure seam welding

The Spectraplan® TPE polymer has a very broad "thermal welding range", which minimises its operational sensitivity. This is determined by the excellent flow behaviour of the TPE polymer. Spectraplan® roofing sheets also have high internal cohesion. The use of identical TPE polymers at the top and bottom side of the roofing sheets, combined with the excellent flow behaviour, produces a homogeneous and reliable weld, which is stronger than the roofing sheet itself. The TPE polymer does not absorb water, thus ensuring a high quality heat-welded joint, even after ageing.

Non-capillary construction

The excellent flow behaviour of the polymer ensures perfect coating of the polyester fibres of the carrier so that no capillaries are created. Spectraplan® TPE roofing sheets are reinforced with fibres that do not absorb moisture. Additional security is provided by the homogeneous selvedge, produced during manufacture.

Resistance to root penetration

The elastomeric nature of the TPE provides Spectraplan® roofing sheets with particularly good resistance to root penetration.

Chemical resistance and compatibility

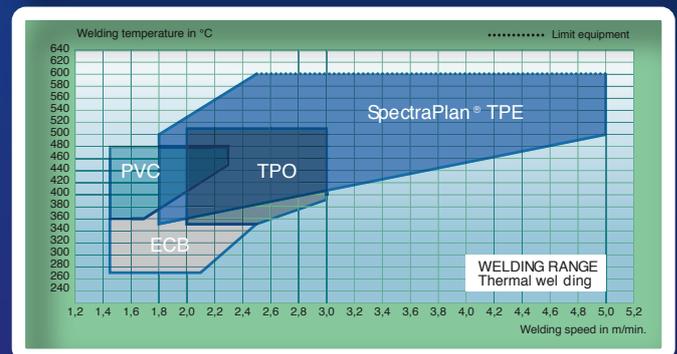
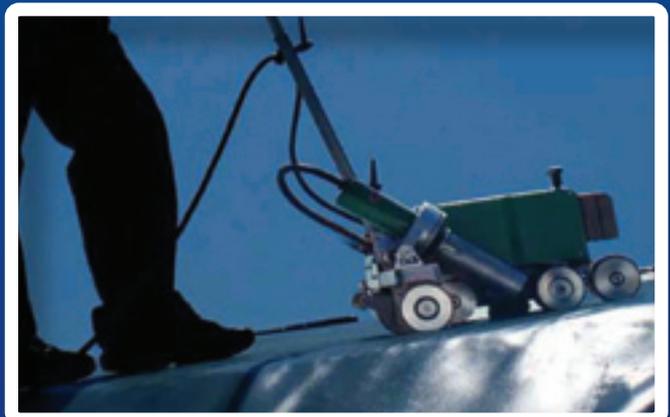
The high degree of purity in the TPE polymers, their amorphous structure and the absence of volatile substances lead to exceptionally high chemical resistance. Spectraplan® TPE roofing sheets are resistant to many organic and inorganic substances and solvents. Spectraplan® TPE roofing sheets are also compatible with bitumen and they can be directly applied to (existing) bituminous coverings and polystyrene (EPS/XPS), without a separation layer being required.

Elasticity

Due to the long lasting high degree of elasticity of TPE, Spectraplan® roofing sheets have high resistance to fatigue and point loading. Movement within the substructure can also largely be accommodated without the need for special detailing.

Memory-effect

Unlike TPOs, the "memory effect" associated with elastomers occurs with Spectraplan® TPE roofing sheets. As a result of this the installations obtains a taut appearance, without this being caused by the exertion of force as tension at the perimeter. Spectraplan® thermal weld overlap. Weld stronger than the roofing sheet itself. for applications in combination with Spectraplan® sheets.



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