

PRODUCT SPECIFICATION *HERTALAN® KS143*

DESCRIPTION *HERTALAN® KS143* is an one component bonding adhesive for adhering HERTALAN® EPDM roofing systems onto flat roofs.

TECHNICAL DATES

Type of product	: Moister curing adhesive based on polyurethane and organic solvents.
Appearance	: Gold/yellow.
Viscosity (20 °C)	: 5.000 ± 1.500 mPas.
Flashpoint	: < 0 °C (closed cup).
Density (20 °C)	: 1.000 ± 10 kg/m ³ .
Dry solids	: 82 ± 2%.
Shelf life	: 12 months, provided that the adhesive is kept in a cool place in the original unopened can.

DIRECTIONS FOR USE *HERTALAN® KS143* is ready-for-use and may not be thinned or mixed with other products. The adhesive can only be used in dry weather conditions at temperatures of at least 5 °C. The material and the base to be adhered have also to be dry and clean.

There are two options for bonded roofing systems with the *KS143*, either partially adhered or fully adhered, the choice of system should be made on basis of the results from wind load calculations. In both situations the *KS143* has to be spread in even beads at pre-determined centers, every 8 cm with a min. width 8 mm. In the partially adhered system at least 50% of the surface should be covered with the *KS143*. In fully adhered situations app. 90% of the surface should be covered. The beads have to be spread on the surface with a fleece roller to achieve the 90% covering.

The *KS143* should be allowed to evaporate for 5 to 20 minutes depending on temperature and wind. The HERTALAN® membrane should be rolled onto the *KS143* taking care to avoid air bubbles, tension and creases.

SURFACE Typically the substrate would be of timber, concrete, bitumen coatings and approved coated insulation boards. We do not recommend the use of *KS143* as an adhesive to steel and some faced or non-faced insulation boards.
HERTALAN® KS143 can only be applied to bases that are clean, dry and free from oil, grease and sharp edges or points. Adhering directly onto polystyrene or plasticized PVC is not allowed.

- ADHESIVE** The adhesive consumption will amount to approximately 225-300 g/m² (for a partially adhered system, applied on one side), depending on weather conditions and temperatures. The spread rate of *KS143* is dependent on specification and the absorption rate of the substrate.
- CLEANING** Equipment and tools can be cleaned with refined petrol.
- OPEN TIME** The open time depends on the temperature and air humidity. In normal conditions it is advised not to apply more adhesive than can be covered in 5-20 minutes. At high temperatures the open time will be reduced.
- CURING** Depending on temperature and air humidity. The strength of the adhesive will increase gradually and will reach its maximum strength after approximately 48 hours. When it has completely dried the adhesive bond is resistant to temperatures from -40 °C up to 80 °C.



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