

SPECTRUM A40S

DESCRIPTION SPECTRUM A40S is a plastomeric modified bitumen waterproofing membrane (APP), industrially manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with polyolefin polymers of the latest generation, which gives to the compound good technical characteristics. The composite reinforcement, made of nonwoven spunbond polyester in combination with fiberglass, conveys high mechanical characteristics, excellent dimensional stability and elastic performance. Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendaring of the mass at hot melt fluid state. The upper surface is coated with anti-adhesive amorphous sand. The lower surface is coated with a thermo-fusibile polyolefin film.

FIELD OF APPLICATION SPECTRUM A40S is suitable as top layer and as under layer in multi-layer waterproofing systems, with compatible membranes. General roofing, vehicles parking roofs, foundations, on or under floors or ground slabs, wall constructions, water tanks, tunnels, as protection from acid and basic solutions are valid examples of the design application of this product. It is not suitable for roof gardens. It can be applied onto every substrate (concrete, masonry, steel, wood, insulation panel, membrane, etc.) and under heavy protection. The excellent mechanical characteristics and high level thermo-dynamic stability make it suitable for any climate conditions and all the situations where a barrier against water is required.

METHOD OF INSTALLATION The thermoplastic properties of the waterproofing compound allow the application with torch-on system or hot air generator. In particular situations, it could be applied with appropriate sealants or mechanical fastenings. The application of the membrane must be carried in good weather conditions and after the substrate has been adequately cleaned and prepared.

TECHNICAL DATA

| TEST METHOD | NORM | UNIT | TOLERANCE | VALUE | |
|--|---------------------------|---------|--------------|--------|--------|
| Thickness | EN1849-1:1999 | mm | ±0,2 | 3-4-5 | |
| Roll length | EN1848-1:1999 | m | -1% | 10 | |
| Roll width | EN1848-1:1999 | m | -1% | 1 | |
| Straightness | EN1848-1:1999 | - | 20 mm / 10 m | PASSED | |
| Flexibility at low temperature (pliability) | EN1109:1999 | °C | </= | 0 | |
| Heat flow resistance | EN1110:1999 | °C | >/= | 110 | |
| Watertightness | EN1928-B:2000 | kPa | >/= | 200 | |
| Water vapour transmission properties | EN1931:2000 | μ | - | 20.000 | |
| | | | | LONG. | TRANS. |
| Tensile properties: maximum tensile strength | EN12311-1:1999 | N/50 mm | -20% | 700 | 550 |
| Tensile properties: elongation at break | EN12311-1:1999 | % | -15 | 40 | 40 |
| Resistance to tearing (nail shank) | EN12310-1:1999 | N | -30% | 150 | 150 |
| Dimensional stability | EN1107-1:1999 | % | </= | ±0,3 | ±0,3 |
| Durability: watertightness after artificial ageing | EN1296:2000/EN1928-B:2000 | kPa | >/= 60 | PASSED | |
| Durability: watertightness against chemicals | EN1296:2000/EN1847 | - | PASSED | NPD | |
| External fire performance | ENV1187/EN13501-5:2005 | Classes | - | Froof | |
| Reaction to fire | EN11925-2/EN13501-12005 | Classes | - | F | |
| Root resistance | EN13948 | - | PASSED | NPD | |

PACKING AND STORAGE The product is packed as standing rolls on wooden pallets wrapped with thermoshinking protective hoods. Rolls must be stored in the upright position, without stacking the pallets to avoid deformations which can compromise the correct application of the membrane. The product must be stored indoor, protected from heat and frost.

DISPOSAL The product does not contain dangerous substances and can be considered as household rubbish or industrial waste (identification code EWC170302).

STANDARDS EN13707; EN13969 - 0120 - GB 06/69407;

TECHNICAL NOTES: For further information refer to general laying instruction guide of NOVAGLASS technical documentation



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