

## PRODUCT DATA SHEET

# Testudo Spunbond 20 4 mm

Plastomeric bituminous waterproofing membrane, flexible at -15 °C

### DESCRIPTION

Testudo Spunbond 20 4 mm is an APP modified bituminous waterproofing membrane, torch applied and flexible at -15 °C. It is reinforced with a dimensionally stable non-woven Spunbond polyester. The underside has a polyethylene burn-off film for easy application. Top surface finishing: talc

### USES

Waterproofing membrane for:

- Retaining walls and basements
- Balconies and terraces under heavy protection layer, i.e. tiles, gravel etc.
- Wet areas
- Underground car parks
- Tunnel and subways
- Roads, bridges and railroads
- Flat roofs under protective layers or ballast
- A single layer or as a base sheet in a multilayer roofing system
- Protection of many substrate types in a wide range of application

### CHARACTERISTICS / ADVANTAGES

- High elongation and cold flexibility

- High mechanical properties (tensile, tear, shear)
- High resistance to impact
- Easy to install by torching method or hot melt bitumen adhesive
- Choice of primers to suit substrate and weather conditions
- Complies with the Standards of the "Central Laboratory for French Bridges and Roads"
- Approved by the SNFC (French Railways)

### APPROVALS / STANDARDS

- CE marking and Declaration of Performance to EN 13969 - Damp proofing for buildings, including basement tanking
- CE marking and Declaration of Performance to EN 13707 - Reinforced bitumen sheets for roof waterproofing
- CE marking and Declaration of Performance to EN 14695 - Reinforced bitumen sheets for waterproofing of concrete bridge decks and other trafficked areas of concrete.
- Infrared Spectrum, Adhesion, Tensile tests NF P 98-282, NF P 98-283, Testudo 4/20, Laboratoire Regional Chemie, Test report N° 18243/01
- Waterproofing complexes for civil engineer structures Testudo 4/20, SNCF, Approval N° VOBC/M3.1D9/21203/96

### PRODUCT INFORMATION

<b>Chemical Base</b>	APP modified bitumen	
<b>Packaging</b>	Roll size	
	Length	10,00 m
	Width	1,00 m
<b>Appearance / Colour</b>	Top surface	Talc
	Backing	Polyethylene film
<b>Shelf Life</b>	36 months from date of production	

<b>Storage Conditions</b>	Product must be stored in original unopened and undamaged sealed packaging in dry conditions, away from the elements and at temperatures between +5 °C and +30 °C. Store in a vertical position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.
<b>Product Declaration</b>	EN 13707 - Reinforced bitumen sheets for roof waterproofing EN 13969 - Dump proofing for buildings, including basement tanking EN 14695 - Reinforced bitumen sheet for waterproofing of concrete bridge decks and other trafficked areas of concrete
<b>Length</b>	10 m - 1%
<b>Width</b>	1 m - 1%
<b>Thickness</b>	4 mm ± 0,2 mm

## TECHNICAL INFORMATION

<b>Tensile Strength</b>	Longitudinal	850 N/50 mm ± 20 %	(EN12311-1)
	Transversal	700 N/50 mm ± 20 %	
<b>Elongation</b>	Longitudinal	50 % ± 15 % v.a	(EN12311-1)
	Transversal	50 % ± 15 % v.a.	
<b>External Fire Performance</b>	F roof		(EN 13501 - 5)
<b>Reaction to Fire</b>	Class E		(EN 13501 - 1)
<b>Water Tightness</b>	60 kPa		(EN 1928-Method B)
<b>Flow Resistance</b>	≥ 120 °C		(EN 1110)
<b>Flexibility at low temperature</b>	≤ -15 °C		(EN 1109)

## APPLICATION INFORMATION

<b>Ambient Air Temperature</b>	+5 °C min. / +50 °C max.
<b>Relative Air Humidity</b>	80 % max
<b>Substrate Temperature</b>	+5 °C min. / +50 °C max.

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LIMITATIONS

- At low temperatures, take care unrolling to avoid damaging the membrane.
- Use suitable footwear to avoid puncturing the membrane.
- Do not apply to wet, damp or unclean surfaces.
- Do not over-torch the membrane otherwise the polyester reinforcement (which melts at 260 °C) will be damaged making the membrane un-useable.
- If membrane is insufficiently heated, this can cause reduced adhesion to the substrate, between layers or on the overlaps. If this occurs, un-bonded areas must be lifted and re-torched.
- If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.

- In case Testudo Spunbond 20 4 mm is used on a roof, to maintain the function of the waterproofing during its lifespan, it is advisable to arrange periodically for inspection of the membrane and detailing. Check the functionality of the auxiliary works, flashings, drainage outlets, overflow pipes etc. including removing leaves, moss and other vegetation, which could cause ponding on the roof and overload the drainage system.

## ECOLOGY HEALTH AND SAFETY

### REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very

high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the waterproofing build-up. When used as a roofing membrane, the complete roof system must be designed and secured against wind uplift loadings. The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, bitumen, oil, dust and loosely adhering particles.

### SUBSTRATE PREPARATION

Use the appropriate preparation equipment to achieve the required substrate quality.

### APPLICATION METHOD / TOOLS

#### Installation procedure

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

#### Priming

Apply the appropriate primer from the Sika® Igoflex® P range, or similar, at the correct consumption to the prepared dry surface and allow to dry before next application stage. Refer to the individual Product Data Sheets.

#### Alignment

Unroll, align and re-roll correctly before torching.

#### Overlaps

Side: 100 mm. End: 150 mm.

### Fastening

Testudo Spunbond 20 4 mm when used as a roofing base sheet, can be mechanically fixed to the substrate by using the correct type of fasteners. Contact Sika Technical Services for additional information.

### Torching

Use a gas burner to heat the substrate and the backing film on the underside of membrane. When the backing film starts to melt, the membrane is ready to stick. Roll the membrane forward and press firmly against the substrate to bond. Ensure a bead of melted bitumen is visible along the full length of the overlap sides and ends when laying.

### Hot melt bitumen adhesive bonding

Apply the appropriate product from the SikaBit® Hot Melt range at the correct consumption to the prepared substrate. refer to individual Product Data Sheet. If the site environment allows, seal the joints by gas burner or hot air equipment.

### Detailing

All details such as internal and external corners, upstands, vent pipes, drains, support metalwork etc. must be cut and sealed effectively. Detailing must follow the recommended guidelines and good practice for torch-applied membranes.

### Protection

The membrane must be protected from damage during any ongoing site activities.

products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its

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