

## **SEALFLEX 4S**

SLATED (MINERAL) SURFACED TORCH APPLIED BITUMEN MEMBRANE

**DESCRIPTION** 

Plus 4S is a durable bituminous torch applied membrane, surfaced with reflective natural color slates to provide excellent resistance against UV. The slates also give protection against foot taffic. iPlus 4S waterproofing membranes are manufactured by coating polymerized bitumen on to a dimensionally stable rot-proof reinforcement core of non-woven spun bond polyester fabric.

MAIN FEATURES

- High puncture and fatigue resistance
- Resists water borne chemicals- increases durability
- High heat Resistance- can be used in hot climate also
- Good Flexibility- can accommodate structural movements
- Good Dimensional Stability under tension –Alignment of membrane for application made easy
- Good Mechanical Properties-high tensile and tear strength of iPlus 4S membrane ensure superior performance

RECOMMENED APPLICATIONS

iPlus 4S membranes are best suitable for waterproofing of exposed roofs, balconies and terraces

- Terraces, balconies and patios
- Exposed areas of Bridges & tunnels
- Exposed Roofs and parapet up stands
- Exposed areas of airport aprons & ramp areas.

**STANDARDS** 

iPlus 4S membranes conform to the requirements of, ASTM D6222/D6222M-16UEAtc MOAT 31-1984, and tested in accordance with UEAtc MOAT 27-1983, ASTM D 5147

## PRODUCT INFORMATION

iPlus 4SA membranes conform to the requirements of ASTM D 6164 Type I & Type II, UEAtc MOAT 31-1984, and tested in accordance with UEAtc MOAT 27-1983, ASTM D 5147 & CGSB.

**PACKAGING** 

Available in rolls , Roll size: 1.00 m (roll width) x 10.00 m (roll length)

**APPEARANCE** 

Rolled sheet membrane, reinforced with polyester non-woven fabric, Slate finish on top surface and Polyethylene film on under side for ease of installation

COLOUR

Slate (Mineral)

SHELF LIFE

12 months from date of manufacturing if stored under standard storage conditions(see below) in original unopened packaging.

TECHNICAL PARAMETERS

PHYSICAL PROPERTIES	TEST METHOD		VALUE
Reinforcement Polyester gsm(g/m²)	160	160	-
Thickness(mm)	4.0	3.0	
Coating asphalt	Polymer modified Asphalt		
Softening point (°C)	150±5		ASTM D-36
Penetration @25°C (dmm)	20±5		ASTM D-5
Low temperature flexibility @0°C	No crack		ASTM D-5147
Heat resistance @ 120°C	No flow		ASTM D-5147
Tensile strength (L/T) (N/5cm)	400/300	400/300	EN 12311-1
Elongation at Break (L/T), (%)	25/35	>25/35	EN 12311-1
Tear resistance (L/T), (N)	130/150	130/150	ASTM D-5147
Resistance to Static Loading	Static- L25		UEAtc
Lap Joint strength, (N/5cm)	Same as membrane		EN 12317
Dimensional stability, (%)	< 1		ASTM D-6222

All values given are subject to 5-15% Tolerance

## APPLICATION INSTRUCTION

Depending upon site conditions, application procedures may vary slightly, Recommended guidelines for the application of the membrane are given below, however for specific cases please contact Innobit Technical service department.

APPLICATION TEMPERATURE

The application temperature should be between 10°C to 45°C.

SUBSTRATE PREPERATION The surface must be clean, dry and structurally sound. Any cracks or damaged concrete shall be repaired with suitable concrete repair systems. Any loose particles on the surface should be removed. Use industrial grade detergent or degreasing compounds for removing oil, grease and wax contaminants. Cement laitance, mold, elease agents, curing membranes and other contaminants must be removed from the surface by grinding or scarifying followed by vacuum cleaning.

**PRIMING** 

All surfaces to receive the membrane should be primed with iKote SB41. Application of the primer can be done by a brush or roller. Membrane can be applied only after the primed surface becomes touch dry. If the primed area is left exposed for more than 48hours, re-priming might be required depending on the dust accumulation on the surface.

**INSTALLATION** 

Alignment: Unroll and align iPlus 4S rolls and re-roll correctly before torching. Side and end overlap should be minimum of 100 mm.

Torching: Use propane/butane gas burner to heat substrate and underside of iPlus 4S for binding the membranes to the surface. Apply heat uniformly. Embossing on the lower face of the membrane allows a fast and safe laying, tart laying from the lowest point of the roof form an overlap so that the water can be shed. When embossing disappears after torching the membrane is ready to stick. Excessive heating may damage the reinforcement. Roll forward and press firmly against the substrate to bond. Stagger the overlaps of the adjacent rolls. Carefully torch and fix the strips of iPlus 4S to prepare the details such as corners, edges and joints in advance. Use a hand trowel to dress the overlap to ensure perfect bonding without any opening.

Sealing: Heat both the overlaps and use round tipped trowel to seal the overlap. Excess compound should be smoothened and pressed into seam using hot trowel.

Upstand: All angles and abutments should be sealed with extra care to ensure full bondage. Seal the edges well into the grooves and protect with a suitable mastic sealant.

SAFETY PRECAUTIONS While heating, any naked flame should be kept well away from the gas cylinders. When ignited the torch should be watched at all times. The torch should not be rested on finished roofing. Extreme care should be taken when working near combustible materials or items which might be scorched by the gas flame.

STORAGE

Store iPlus 4S membrane and primer in a well-covered, cool, and dry place. iPlus 4P membranes should be stored vertically in a clean covered area. Rolls should not be stacked on top of each other

HEALTH AND ENVIRONMENT

Caution should be exercised while applying the product as it is with any other bitumen material. Impervious gloves and barrier cream should be used when handling these products. Bitumen stains on skin can be removed by a suitable cleaning agent. Seek medical attention if situation becomes critical. iPlus 4S is non-hazardous, non-flammable and therefore can be disposed into any regular disposal area. However, it should be disposed only after wrapping with paper, plastic or cloth as the modified bitumen has a tendency to soften under heat and pressure which would make further handling very tough.

Disclaimer: All technical data of this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Please note that because 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. Information on this data sheet is subject to change without notice and should not be used for writing specification. For additional information on specific applications, please contact SealSafe. The information contained herein, provides recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted based on the contents of this data sheet, or any verbal advice given, unless there is a case of willful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product. Innobit reserves the right to change the properties of its 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. All values given are subject to 5 – 10% tolerance. #Values achieved within 7 days after casting specimen at 25°C and 50% RH.

