



FOAMLOK 501

TECHNICAL DATA SHEET

FOAMLOK 501 is a two component, open cell, spray applied, semi-rigid polyurethane foam system. This product is a fully water blown foam system with a low in-place density with excellent adhesion to various substrates and to itself. The product is used as a thermal insulation and air barrier in: roofs, wall cavities, floor assemblies, ceiling assemblies, attics (vented and unvented). It can be sprayed onto roof membranes, concrete, masonry, wood, particle board and gypsum board.

For more information, look FOAMLOK 501 installation instructions.

FOAM PROPERTIES

PHYSICAL PROPERTIES		
EN 1602	Apparent density	7,2 – 8 kg/m ³
EN 12667	Thermal conductivity	0,039 W/m.K
EN 1609	Water permeability	NPD
EN 12086	Water vapour permeability	MU5,83
EN ISO 11654	Sound Absorption Coefficient	0,70
VOC	Release of dangerous substances	A+
EN ISO 4590	Closed cells content	CCC1

FIRE TEST RESULTS		
EN 13501-1+A1	Reaction to fire	Class E

REACTIVITY PROFILE			
Cream Time	Gel Time	Tack Free Time	End of Rise
1 – 2 seconds	3 – 4 seconds	6 – 7 seconds	6 – 7 seconds

CHEMICAL PROPERTIES

LIQUID COMPONENT PROPERTIES*		
PROPERTY	A-PMDI ISOCYANATE	SEALECTION 500 RESIN
Colour	Brown	Amber
Viscosity @ 25°C	180 - 220 MPas	150 - 300 MPas
Specific Gravity	1.24 kg/dm ³	1.08 - 1.12 kg/dm ³
Shelf Life of unopened drum properly stored	12 months	6 months
Storage Temperature	10 - 38°C	10 - 38°C
Mixing Ratio (volume)	1:1	1:1

PROCESSING CONDITIONS

RECOMMENDED PROCESSING CONDITIONS*	
Initial Recirculating Setpoint Temperature	32 - 38°C
Initial Primary Heater Setpoint Temperature	43 - 55°C
Initial Hose Heat Setpoint Temperature	43 - 55°C
Initial Processing Setpoint Pressure	75 - 105 bar
Substrate & Ambient Temperature (No humidity on the surface of the substrate)	> -5°C
Moisture Content of timber substrate	≤19%
Moisture Content of Concrete	Concrete must be cured, dry and free of dust and form release agents.
Yield (m ³ / set)	37 m ³

Foam application temperatures and pressures can vary widely depending on temperature, humidity, elevation, substrate, equipment and other factors. While processing, the applicator must continuously observe the characteristics of the sprayed foam and adjust processing temperatures and pressures to maintain proper cell structure, adhesion, cohesion and general foam quality. It is the sole responsibility of the applicator to process and apply FOAMLOK 501 within specification.

Equipment must be capable of delivering the proper ratio (1:1 by volume) of polymeric isocyanate (PMDI) and polyol blend at adequate temperatures and spray pressures. Substrate must be at least 5 degrees, with best processing results when ambient humidity is below 80%. Substrate must also be free of moisture (dew or frost), grease, oil, solvents and other materials that would adversely affect adhesion of the polyurethane foam.

STORAGE AND USAGE

FOAMLOK 501 component A and component B should be stored between 10C – 38C. Component A should be protected from freezing. The shelf life of component B is 6 months, component A is 12 months.

Before spraying, the FOAMLOK 501 Component B must be mixed with a pneumatic mixer and also constantly during the application. The material temperatures in the drums need to be 32-38 C. this is achieved by re-circulating the material through the heaters on the proportioner back into the drums. Heater jackets can also be used to help with heating the drums

Do not store material on rigs other than what is required for the current application needs. Material left inside rigs can easily exceed this recommended temperature in the warmer months. The excessive heat will degrade the component B (resin) material and shorten its usable shelf life. Do not store material in open drums

If the material was transported in freezing conditions, store it in room temperature for a minimum of 24 hours to get proper material condition. Do not attempt to heat up drum during storage.

HEALTH AND SAFETY

Ventilate during spray foam application and for a minimum of 24 hours following the application or until no objectionable odor remains. If not adequately ventilated during and shortly after application, the odors can be absorbed in adjacent materials such as fibrous insulation, wood framing and household or stored items. Sheet plastic should be placed over any absorbent material that cannot be removed during the spray and ventilation operation.

PACKAGE

The components are supplied in barrels with capacity of 200 l.

Component A – 250 kg

Component B – 220 kg

PRODUCT COMPLIANCE AND CERTIFICATIONS



UKCA:

This product is fully compliant with British Standards.

This product is certified and quality approved by a number of professional bodies.



Kiwa:

a trustworthy certification body.