

MasterSeal[®] 745SPF

Spray applied polyurethane foam (SPF) for seamless, high performance thermal insulations

DESCRIPTION

MasterSeal 745SPF is a polyurethane spray foam system (in-situ foam) for the production of rigid foam with closed cells for thermal insulation.

TYPICAL APPLICATIONS

Applications include:

- Thermal insulation layer in building envelope; mainly on roofs, walls or cold stores where a seamless thermal insulation is required
- Thermal insulation in industrial plants, storage tanks, containers, cargo ships, agricultural storage and all types of buildings
- The system can be applied on substrate like metal, plywood and concrete

Suitability must be examined by the user prior to commercial use.

ADVANTAGES

- Maximum thermal insulation - Maximum energy saving due to optimal insulation with no joints or thermal bridges
- Fast reacting - Rapid installation. Does not run when applied on vertical surfaces
- Seamless - No risk of leaky seams and laps

- Spray applied - Fast installation on large surfaces, easy application on complex details
- Fully bonded - Eliminates water collection behind the foam and offers high wind uplift resistance
- High compressive strength - withstand necessary load
- Quick Refurbishment - Usually no break-up of the old roof surface

PACKAGING

MasterSeal 745SPF (PTA) is packaged in 220 kg drums and **MasterSeal 700SPF** (PTB) is packaged in 250 kg drum.

TYPICAL PROPERTIES*

Characteristics	Test Methods	Result
Density (Core)	BS EN 1602:2013	45 ± 2 kg/m ³
Compressive strength/compressive stress at 10% deformation	BS EN 826:1996	200 kPa
Thermal Transmission properties by heat flow meter (Therma Cond)	ASTM C518:2015	0.024 W/m ² K
Dimensional Stability Under Specific Temperature & humidity	BS EN 1604:2013	7.0 L% 7.0 W% 2.0 T%
Closed Cells Content	ASTM D 6226-10 Procedure 1	≥90%
Flammability	BS EN 13501 – 1:2007	Class F / B3 Euro Class

Measured values were determined on specimens produced on our pilot plant under controlled conditions. SPF performance and actual physical properties will vary with differences in applications (i.e. Ambient conditions, process equipment and settings, material throughput, etc.). As a result, these given properties should be used as guidelines solely for purpose of evaluation. Verification of these properties on production plants at user's site under prevailing production conditions is required.

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APPLICATION GUIDELINES

Usually applied by Specialist Applicator. Please contact Master Builders Solutions Construction Chemicals for specific application assistance.

STORAGE AND SHELF LIFE

Store clear off the ground in unopened original packing, in a room well protected from moisture and humidity. Keep **MasterSeal 745SPF** cool in hot weather and warm in cold weather. The components are hygroscopic hence reseal containers after use.

MasterSeal 745SPF (PTA): Shelf life is 4 months
MasterSeal 700SPF (PTB): Shelf life is 4 months

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advices consult Master Builders Solutions Technical Services Department.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational Health & Safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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