

# MasterSeal<sup>®</sup> 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
- Environmental friendly

## PACKAGING

**MasterSeal 745SPF** Part A is packaged in 220kg drums and Part B is packaged in 250kg drum.

## STANDARDS / COMPLIANCE

BS EN 1602:1997  
ASTM C518

## APPLICATION PROCEDURE

Usually applied by Specialist Applicator. Please contact BASF Construction Chemicals for specific application assistance.

## STORAGE AND SHELF LIFE

The shelf life for **MasterSeal 745SPF** is:  
Part A - 6 months  
Part B - 12 months

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.

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

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## PHYSICAL / CHEMICAL PROPERTIES\*

Mixing ratio	1:1 by volume
Nominal density – BS EN 1602 : 2013	45kg/m <sup>3</sup>
Thermal conductivity (Initial value) at mean temperature 35°C - ASTM C518-2015	0.024W/m <sup>2</sup> K 0.1664Btu-in/h. ft <sup>2</sup> F
Thermal resistance (R- value) at 50mm thickness - ASTM C518-2015 @ 35°C	2.1096m <sup>2</sup> K/W
Compressive strength – BS EN 826 : 1996	>350kPa
Odour emission - ASTM C1304-08	No
Fire classification	B3 (also available in B2)
Substrate & ambient temperature	+5°C and 40°C
Water absorption ASTM C209-2015	<1%
Relative humidity	<85%

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.

### NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals representative.

BASF reserves the right to have the true cause of any liability determined by accepted test methods.

### QUALITY AND CARE

All products originating from BASF's 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, ISO 14001 and ISO 45001.

\* Properties listed are based on laboratory controlled tests.

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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

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