

# MasterSeal<sup>®</sup> 745 HFO

**Eco-friendly, Hydrofluoro-Olefin based (HFO), spray applied polyurethane foam for seamless, high performance thermal insulations**

## DESCRIPTION

**MasterSeal 745HFO** is the new generation of the polyurethane spray 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.
  
- Ultra-low Global Warming Potential, GWP~1.
- Zero VOC, making it Non Ozone Depleting.

## PACKAGING

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

## STANDARDS / COMPLIANCE

BS EN 1602:1997  
ASTM C518  
ASTM C1029

## APPLICATION PROCEDURE

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

## STORAGE AND SHELF LIFE

The shelf life for **MasterSeal 745HFO** 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 745HFO** 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 Master Builders Solutions's Technical Services Department.

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## PHYSICAL / CHEMICAL PROPERTIES\*

Mixing ratio	1:1 by volume
Viscosity @ 25°C	3,800 mPa s
Density / Core – ASTM D1622	45-50 kg/m <sup>3</sup>
Thermal Conductivity (Initial value) at mean temperature 10°C - ASTM C518-2010	≤ 0.022W/m <sup>2</sup> K 0.1622Btu-in/h. ft <sup>2</sup> F
Compressive strength – ASTM D1621	≥300kPa
Closed Cell Content - ASTM D2856	>95%
Water absorption - ASTM D2842	<3%
Fire Classification	B3

Measured values were determined on specimens produced on our pilot plant under controlled conditions. Spray foam 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 Master Builders Solutions Construction Chemicals representative.

Master Builders Solutions reserves the right to have the true cause

### QUALITY AND CARE

All products originating from Master Builders Solutions'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 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

\* Properties listed are based on laboratory controlled tests.

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