

# Technical data sheet



Product: 8045

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: EINSEITIG

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## FLEXIBLE AIR SEALING TAPE FAST-UC 8045

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# Flexible Air Sealing Tape FAST-UC 8045

## Product Data Sheet

Date: September 2017  
Supersedes: January 2017

### Product Description

3M™ Flexible Air Sealing Tape FAST Ultra Conformable 8045 is an one-sided adhesive, air and water-tight, stretchable and three-dimensionally formable acrylate sealing tape.

### Intended Use

- Sealing around openings and joints in building applications
- Sealing around window and door installations
- Sealing of feedthroughs for cables or wall penetrations

**Note:**

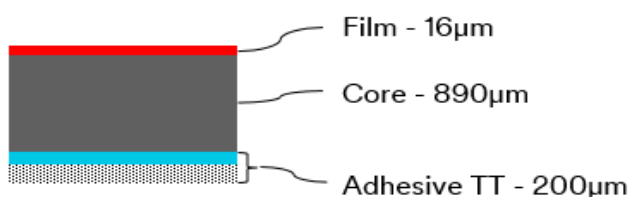
Applications not in any regard to fire protection

### Key Features

- Stretchable, but tear resistant
- Stretches and forms to difficult to flash areas with a single piece (e.g. corners)
- Compatibility and primerless application with the most common building and construction substrates (PE, wood, OSB, concrete, etc.)
- Tight seal against weather intrusion, due to tape wet out while flowing into substrate ridges
- Easy, fast and hassle-free installation
- Tape should be covered within 270 days of installation (9 months UV light resistance)

### Physical Properties

Tape Colour	Grey
Adhesive Type	Acrylic
Thickness of Tape	1.1 mm



## Performance Characteristics

Initial Strength		
Evidence of performance:      by 3M	Adhesion to Polished Steel 90 ° peel @ RT, 24 h dwell, jaw speed 300mm/min (AFERA 5001)	130 N/100 mm (CF)
	Adhesion to PVC 90 ° peel @ RT, 24 h dwell, jaw speed 300mm/min (AFERA 5001)	140 N/100 mm (CF)
	Adhesion Cement (Eterboard) 90 ° peel @ RT, 24 h dwell, jaw speed 300mm/min (AFERA 5001)	130 N/100 mm (CF)
	Adhesion to OSB 90 ° peel @ RT, 24 h dwell, jaw speed 300mm/min (AFERA 5001)	100 N/100 mm (CF)
	Adhesion to Wood, glazed 90 ° peel @ RT, 24 h dwell, jaw speed 300 mm/min (AFERA 5001)	100 N/100 mm (AF)
	Tensile / Stress at break Tensile / Elongation at break (EN ISO 527-3: 2003)	≥ 0.840 N/mm <sup>2</sup> ≥ 300 %
by ift Rosenheim acc. to ift Guideline MO-01/1 Test Report No. 16-002989- PR01	Tensile – elongation Longitudinal (N/50 mm/ %) Transverse (N/50 mm/ %) (acc. to EN 12311-2, 100 mm/min)	49 / 1055 51 / 1093
	Bond strength PVC-U measured on additional building materials (see page 4)	0.224 (N/mm <sup>2</sup> ) (CF)

Strength after Aging		
Evidence of performance:       by 3M	Adhesion to Polished Steel 90° peel @ after 7 days @ 38 °C & 98% RT - (AFERA 5001)	150 N/100 mm (CF)
	Adhesion to PVC 90° peel after 7 days @ 38 °C & 98% RT - (AFERA 5001)	150 N/100 mm (CF)
	Adhesion Cement (Eterboard) 90° peel @ after 7 days @ 38 °C & 98% RT - (AFERA 5001)	140 N/100 mm (CF)
	Adhesion to OSB 90° peel @ after 7 days @ 38 °C & 98% RT - (AFERA 5001)	110 N/100 mm (CF)
	Adhesion to Wood, glazed 90° peel @ after 7 days @ 38 °C & 98% RT - (AFERA 5001)	140 N/100 mm (CF)
	Salt Spray Tests (DIN 5002:1) Polished steel	140 N/100 mm (50 % CF)
	Salt Spray Tests (DIN 5002:1) PVC	160 N/100 mm (CF)
	Salt Spray Tests (DIN 5002:1) PE-Foil	120 N/100 mm (60 % CF)
by ift Rosenheim acc. to ift Guideline MO-01/1 Test Report No. 16-002989-PR02	Thermal Shock Resistance (-20 °C up to 60 °C) No changes impairing functions, strength after exposure ≥ 80 % of initial value	fulfilled on all substrates listed on page 4
	Light resistance and resistance to moisture penetration (2 weeks) No changes impairing functions,	fulfilled on all substrates listed on page 4
Classification of reaction to fire of Construction Products		
DIN EN 13501-1	Compatibility with adjacent building materials (up to 60 °C) No changes impairing functions, no impairment of visual appearance	classified on all substrates listed on page 4
Water Vapour Permeability (S <sub>d</sub> value) (m)		
EN ISO 12572 : 2001-06) (A) ift Rosenheim Test Report No. 16-002989-PR02		8.5
Nail Sealability / Watertightness		
No water penetration at up to 600 Pa ift Rosenheim Test Report No. 16-002989-PR03, - PR04 & -PR05		

ift Rosenheim Test Report No. 16-002989-PR02

#### Service Temperatur

- 20 °C up to 60 °C

ift Rosenheim Test Report No. 16-002989-PR02

#### Application Temperatur

≥ 0 °C up to 60 °C

#### UV-Light Resistance

9 months

## Building Material

**Building Material used to produce the test specimens for all testing by the ift Rosenheim**  
acc. to ift- guideline MO-01/1 : 2007-01

Concrete	C35
Exterior plaster	HASIT 650 cement mortar
Exterior plaster	HASIT 150
Building plaster with Weber light mortar	LM21 without primer
Building plaster with Weber light mortar	LM21 with primer
FibreC	glass fibre concrete slab 2.0
Wood (spruce)	rough, grinded
Wood (spruce)	varnished
Wood (spruce)	painted
OSB	panels class 3 with rough surface
PVC-U	white
Aluminium	anodised
Anodised aluminium	Powder-coated aluminium
Vapour barrier	Siga Majpell (PE)
Strong porous cement	rough surface
Glasroc	-

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Important Technical  
Information

- FAST UC 8045 should not be installed / applied when the temperature of the tape is below freezing point
  - Prior to application, ensure that the surface / substrate is dry to the touch with no standing water, free of frost, dust and dirt prior to tape installation
  - Please evaluating beforehand if the 3M product is fit for your particular purpose, substrate and suitable for user's method of application.
  - Do not apply tape when surface / substrates are still frozen
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## Application Handling

To obtain best adhesion, product can be installed within an outdoor temperature range from  $\geq 0\text{ }^{\circ}\text{C}$  up to  $60\text{ }^{\circ}\text{C}$ .

Surfaces must be free from dirt and debris and not have absorbed water. They should be free of any damaged, unsupported areas and sharp protrusions or voids.

3M™ Flexible Air Sealing Tape 8045 FAST UC adheres to the most common building material and to all listed on page 5.

To apply, peel back the liner to position the tape. Firm pressure to the tape surface is recommended when applying to the building surface. Using a roller apply sufficient pressure along the entire tape surface to ensure a continuous seal and to eliminate trapping air beneath the tape.

### Warning:

The paper release liner is slippery and should not be walked on at any time. Discard paper release liner in a designated container

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## 3rd Party Evaluation

### IFT

The 3M™ Flexible Air Sealing Tape FAST UC 8045 has been tested by IFT-Rosenheim based on the following guidelines and standards:

- IFT-Richtlinie MO-01/1 : 2007-01
- EN 12311-1 : 1999-09
- EN ISO 12572 : 2001-06
- According to DIN 18542
- According to EN 12211 : 2000
- DIN EN 13501-1

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## Storage & Shelf Life

Store at  $16\text{ }^{\circ}\text{C}$  –  $25\text{ }^{\circ}\text{C}$  and 40-65 % relative humidity in its original box.

The product can be stored up to 12 months after production.

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## For Additional Information

To request additional product information or to arrange for sales assistance, call...  
Address correspondence to: 3M

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## Important Notice

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations

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