MD1-FttH single duct

The Filoform MD1-FttH is designed for gas and watertight sealing of FttH home entries with micro ducts and cables.
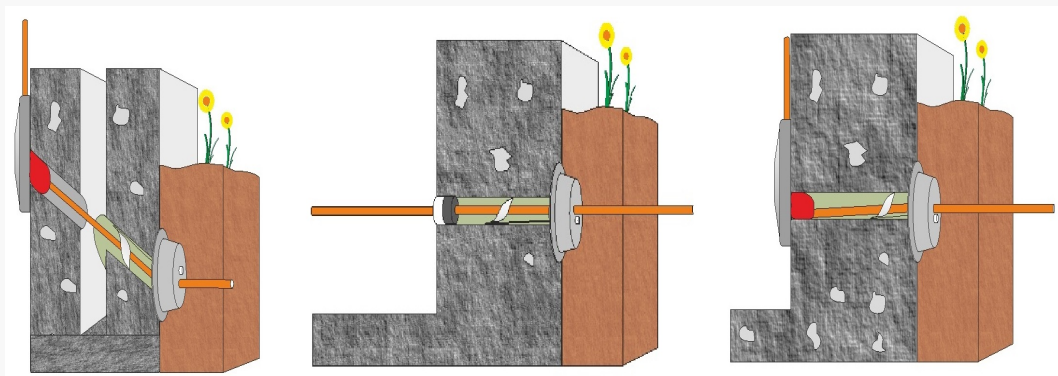
The sealing cap can be applied to the wall by using the special anchoring pin. This way it is not necessary to drill additional holes and to secure the cap with screws.

A gas and watertight seal is created with use of Filoform expanding PU resin type 2235. After injecting the resin it will expand and fully cure intro a strong and durable seal.
Any irregularities or damage to wall will be restored with the resin.

To seal the duct opening on the inside of the house, we recommend the use of Filoform sealing paste or our FttH entry cover with a 90° bend radius to allow safe and secure bending of micro ducts / cables and blowing of the fibre after installation.

Features

- Universal, suitable for micro ducts and cables Ø4-12mm (art.80219) and Ø14-20mm (art.80221).
- Expansion along the borehole and on the outer wall guarantees an excellent seal.
- Tested 2.0 bar Gas & Watertight.
- Quick installation in minutes, no special tools required.
- No extensive core drilling necessary.
- Also suitable for angled penetrations.
- Suitable for sealing holes in the most common wall types according to DIN 18533 and walls made from WU-Concrete, load class 1 and 2 (Watertight pressure 2,0 bar).
- Complies with DIN 18322 underground cable laying works: cable and conduit entries into buildings are to be made watertight and gastight.
- High mechanical strength, resists ground movement, shocks and vibrations.
- Supplied as one complete kit for sealing of one house connection.
- Over 30 years of practical experience, installed in many Telecom / FO network.

MD1-FttH single duct

Specifications

Set contents

Item nr. 80219	Item nr. 80221
MD1-FttH 1x4-12mm	MD1-FttH 1x14-20mm
Item nr. 80219.3	Item nr. 80219.6
SET - MD1-FttH + FttH entry 90° for 1x4-8mm	SET - MD1-FttH + FttH entry 90° for 1x10-12mm

Outer diameter	Inner diameter	Height
106 mm	72 mm	24 mm

Dimensions cap

Properties	Unit	Value
Start time expansion	seconds	20
End time expansion	minutes	2
Curing time	minutes	5

Properties	Unit	Value
Start time expansion	seconds	60
End time expansion	minutes	5
Curing time	minutes	10

Specifications expanding resin

Properties	Unit	Value
Compressive strength	N / cm²	> 60
Density	kg / m³	> 50
Gas and water tightness 1,0 bar	30 days	no leakage
Gas and water tightness 2,0 bar	24 hours	no leakage
temperature Cycles, -20°C tot +40°C	10 consecutive cycles	no leakage
Vibration test 10 Hz/amplitude 3mm	240 hours	no leakage
axial tensile force	diameter x 10 N	no leakage
Pull out strenght FttH cable / microduct	N	> 400
Chemical resistance		
0,1N Na_2SO_4	30 days	no degradation
0,1N NaCl	30 days	no degradation
0,1N H_2SO_4	30 days	no degradation
0,1N NaOH	30 days	no degradation
Diesel	30 days	no degradation
Gasoline	30 days	no degradation
Resistance		
Molds		good
Rodents		good

More info

Assembly instructions

- [80219 - MD1-FttH 1x4-12mm](#)
- [80221 - MD1-FttH 1x14-20mm](#)
- [80219.3 - SET - MD1-FttH + FttH entry 90° voor 1x4-8mm](#)
- [80219.6 - SET - MD1-FttH + FttH entry 90° voor 1x10-12mm](#)

Material Safety Data Sheet

- [Download: Material Safety Data Sheet (MSDS)](#)

Products

Art.nr.	Product Name	Duct diameter min.-max. (mm)	Maximum cable or pipe diameter in the duct (mm)	Order unit
80219	MD1-FttH 1x4-12mm	Ø 16-20	4-12	per piece
80219.3	SET - MD1-FttH + FttH entry 90° for 1x4-8mm	Ø 16-20	4-8	per set
80219.6	SET - MD1-FttH + FttH entry 90° for 1x10-12mm	Ø 22-25	10-12	per set
80221	MD1-FttH 1x14-20mm	Ø 32-40	14-20	per piece