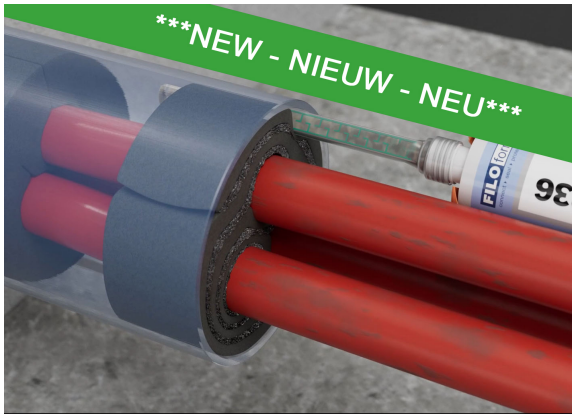
MD5 Duct sealing system



Duct sealing systems MD5 are designed to provide an effective and straightforward solution for gas and watertight sealing of one or multiple cables/conduits in ducts or boreholes. MD5 protects against damage caused by gas and water leaks.

This duct sealing system is highly flexible in use and can be installed in vertical and horizontal duct or boreholes, and is suitable for boreholes drilled at any angle.

Features

- One box solution Everything needed to seal one duct end (except a caulking gun).
- Cable SeparationIt is vital, to make sure the duplex foam is wrapped around each cable, to create separation from each other and the inside of the duct.
- Running waterThe duct & cables must be as dry as possible with no running water and free from any dirt, oil, greese & debris. MD5's resin can cope with small amounts of moisture in the duct or on the cables, but larger amounts of water will reduce the effectiveness. Please contact our technical department if you have any questions.
- Remove all of the front foam that is separating the cables with a pair of pliers or cutting tool
- Using a hammer & chisel or similar tool to break the seal around the cable and the inside of the duct
- If there is room and the cables are de-energized, a power tool to speed the process up could be used. Once the seal is broken from the cable, there may be a crust of resin still present on the cable; this is due to the excellent adhesion our resin has. The hardest part of removing this seal is the crust that forms when the resin soaks into the foam flange.
- Gas and watertight up to 1.5 bar / 21 PSI (30 days)
- Gas and watertight up to 2.5 bar (7 days)
- After injecting, the polyurethane sealant will expand and cures/hardens with a high density and a closed cell structure
- Easy and quick installation
- One complete kit - Everything you need except for a standard caulking gun
- Suitable for single & multiple cables
- Compatible with a wide range of cable and conduit materials: PVC & PEsheathed cables, PILC cables, (HD)PE ducts, & PE drinking water conduits • High mechanical strength, resists ground movement, shocks and vibrations
- Complies with DIN 18322 underground cable laying works - gas & watertight cable and conduit entries into buildings • Complies with 2011 NEC Articles 225.27, 230.8, 300.5(G), 300.7 (A) on Raceway Seals, and 501.15

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Specifications

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Curing properties	Unit	Value
Start time expansion	Seconds	50-70
End time expansion	Minutes	8-10
Curing time (Tack-Free time)	Minutes	>12
Specifications		
Compressive strength	N / cm^2	>60
Density	kg / m^3	90-110
Thermal resistance long term	°C	100
Closed cell percentage	%	>90
Thermal stability		
Thermal aging, 28d 90°C	no visual damage	V
Form stability, size and visual	%	<1
Compression strength after aging	N / cm^2	>40
Weight loss after aging	%	<0,5
Hydrolysis test		
Water absorption, at 40 years, fully immerged	%	<10
Water absorption 28 days at 90 °C	%	<5
Weight loss max.	%	0,5
Compression strength after Hydrolysis test	N / cm^2	>40
Form stability after Hydrolysis test	Visual	PASS
Chemical resistance		
0,1N Na_2SO_4	30 days	PASS
0,1N NaCl	30 days	PASS
0,1N H_2SO_4	30 days	PASS
0,1N NaOH	30 days	PASS

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Diesel	30 days	PASS
Gasoline	30 days	PASS
H2S, 200 ppm	5 days, 40°C, 95% air humidity	PASS
Resistance		
Mold		Good
Rodents		Good
Shelf life		
Storage time before use, under restricted conditions	Months	18

Click here to download the TDS with more technical test data(TDS)

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More info

Download: Technical Data Sheet (TDS)

Download: Material Safety Data Sheet (MSDS) **(on request)**

Products

Art.nr.	Product Name	Duct diameter min.-max. (mm)	Order unit
80347	MD5-160mm	Ø 160 max.	per piece
80345	MD5-110mm	Ø 110 max. (set for 2 seals)	per piece