

Tangit M 3000

2-component expansion resin

PROPERTIES

- Self-expanding to the 5fold volume
- Non-shrinking
- Durable
- Functional strength after 5 minutes
- Final strength after 30 minutes
- Resistant to rotting, non-biodegradable, nonresistant to UV light (e.g. sunlight)
- Compatible with all common building materials and plastics
- Tested to DVGW VP 601
 - High tensile and torsion resistance
 - High thermal stability (650 °C/30 Min.)
 - Waterproof to DIN 18533
 - W1.1-E, W1.2-E (only Tangit M 3000)
 - W2.1-E (Tangit M 3000 + Tangit M 4082)
 - Waterproof concrete load class 1 + 2
- Based on DVGW VP 601:
 - Gastight up to test pressure 3 bar (only M 3000)



AREAS OF APPLICATION

- Component of many system providers of service penetrations
- Annular seal in wet installation according to DIN 18533
- Data cables, protective and casing pipes
- For buildings with and w/o basements
- Refurbishment of untight penetrations
- Closure of unused core drillings
- Sealing of wellheads and manhole rings

TECHNICAL INSTRUCTIONS FOR USE

Preparation of the surfaces:

The surface must be firm, clean and free of any parting agents. Smooth non-adhesive surfaces (eg PE) must be sanded cross-wise at least twice with sandpaper (grit 240). Then clean with Tangit Cleaner PE / PB / PP / PVDF or Tangit Cleaning Cloths PE / PB / PP / PVDF. Do not apply to stagnant water. Moist masonry does not affect the product performance.

Range of temperature (cartridge):

- The temperatures affect the reaction time and the open time, the warmer the faster/shorter
- Minimum processing temperature: +5 °C
- Maximum processing temperature: +30 °C
- Optimum processing temperature: +15 °C to + 25 °C (product, ambient and workpiece/surface temperature)
- When working at low ambient temperatures (0 to 10 °C) heat Tangit M 3000 to room temperature before use. Otherwise allow for a significantly longer curing time.

Application:

- Make sure that the gap between the pipe and the duct is at least 8 mm.
- Seal the annular gap provisionally on both sides (eg with PE round cord) against uncontrolled resin escape
- Remove the cap from the cartridge and screw on the mixing nozzle
- 300 and 150 ml cartridges: Insert in 2K coaxial cartridge press (Henkel PPGUN).
- The 150 ml cartridge can also be used in combination with the enclosed plunger with a sturdy 1K pistol.
- Discard the first 2 - 3 strokes of the resin until even mixture of components is achieved; recognizable by the homogeneous coloring of the batch.
- Immediately insert the extension tube into the largest depth of the gap, inject resin in the required amount at the highest point; then pull out slowly.
- After the first application use the cartridge within 1 minute or install a new static mixer. The product also hardens in the mixer and cannot be further processed after curing.
- Do not squeeze by force. Change static mixer at blockage.
- Resin leakage out of the opening signals a complete infilling; insert more resin if needed.
- If the contents are not used completely, close the cartridge. The remaining content can be used later with a new static mixer.

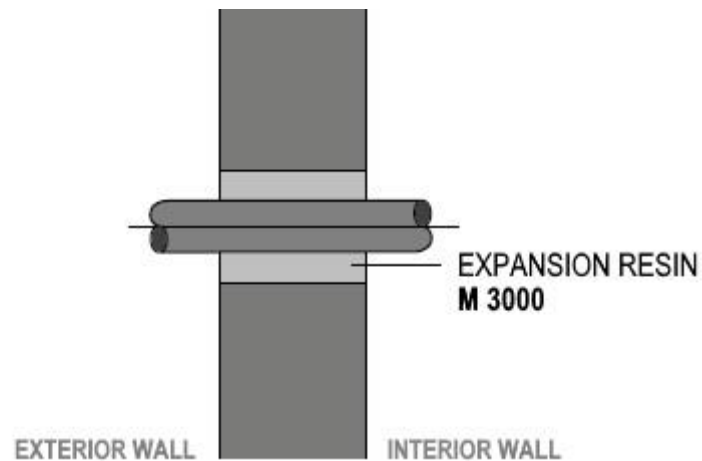
OTHER INFORMATION

Product code / content

TE 150	10 cartridges of 150 ml + 10 static mixers incl. 2 extension tubes + technical data sheet
TE 300	6 cartridges of 300 ml + 6 static mixers incl. 2 extension tubes + technical data sheet

APPENDIX

For fastening and permanently sealing against non-pressurized water according to DIN 18533 W1.1-E und W1.2-E



For fastening and permanently sealing against pressurized water according to DIN 18533 W2.1-E

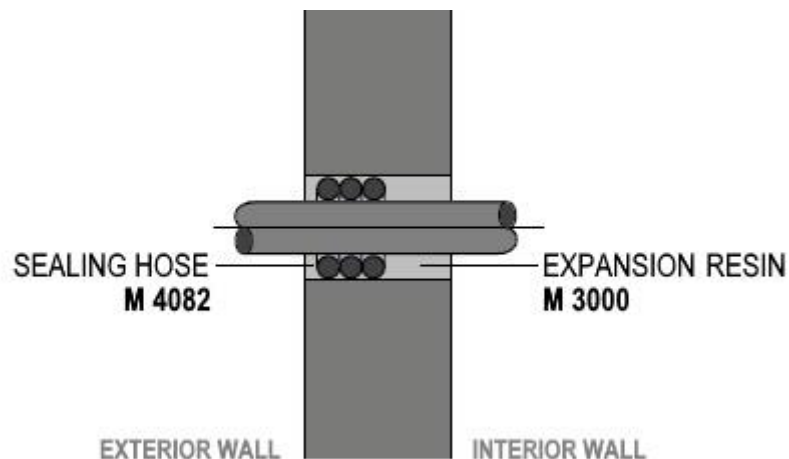


Table of consumption, brick wall depth: 250 mm

I. Core drilling: 80 mm

Pipe diameters (d)	without sealing hose		with sealing hose	
	number of cartridges		number of cartridges	
	(150 ml)	(300 ml)	(150 ml)	(300 ml)
a) 52 mm	1,0	0,5	0,8	0,4
b) 60 mm	0,8	0,4	0,5	0,3

II. Core drilling: 100 mm

Pipe diameters (d)	without sealing hose		with sealing hose	
	number of cartridges		number of cartridges	
	(150 ml)	(300 ml)	(150 ml)	(300 ml)
a) 52 mm	2,0	1,0	1,7	0,9
a) 60 mm	1,8	0,9	1,5	0,8
b) 85 mm	0,8	0,4	0,5	0,3

III. Core drilling: 120 mm

Pipe diameters (d)	without sealing hose		with sealing hose	
	number of cartridges		number of cartridges	
	(150 ml)	(300 ml)	(150 ml)	(300 ml)
a) 52 mm	3,2	1,6	2,9	1,5
a) 60 mm	3,0	1,5	2,7	1,4
b) 85 mm	2,0	1,0	1,7	0,9



TECHNICAL DATA

Raw material basis:	2c-polyurethane
Thermal stability:	Short-term 650 °C, 30 Min. Long-term –40 °C to +90 °C
Processing temperature:	Min. +5 °C, max. +30 °C, ideal +15 °C to +25 °C
Functional strength:	After 5 Min. (20 °C)
Final strength:	After 30 Min. (20 °C)
Tensile strength:	30 kN
Gas tight:	Tested at 3 bar (expansion resin)
Torsion resistance:	240 Nm
Water proof:	Waterproof in connection with Tangit M 4082 Sealing Hose, tested at 1 bar
Consumption:	150 ml cartridge: up to 750 ml expanded resin 300 ml cartridge: up to 1,5 Liter expanded resin
Shelf life:	18 months at 20 °C, store in an upright position in a cool and dry place

Apart from the information given in this technical data sheet, it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the applicable DIN standards.

All data given was obtained at an ambient and material temperature of +23°C and 50 % relative humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The mentioned information above, in particular recommendations for the handling and use of our products, is based on our professional knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our control, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for the intended application method and use. Legal liability cannot be accepted based on the contents of this technical data sheet or any verbal advice given unless there is evidence of willful intent or gross negligence on our part.

This technical data sheet supersedes all previous editions.

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