



# MANORTEQ

Completing the Waterproofing

## NonShrink Thix

### TECHNICAL DATA SHEET

Manorteq NonShrink Thix is a single-component, non-shrink, dry mortar mix intended specifically for sealing anchors and creating watertight areas within vertical and non-supported horizontal concrete. The product has excellent waterproofing capabilities, provided by the Xypex Technology Inside.

### Description

Manorteq NonShrink Thix is a grout that ensures permanent fixing of anchors in concrete. It resists most dynamic stresses and provides protection to anchors.

Manorteq NonShrink Thix has been developed specifically for small volume, manually applied grouting.

Holes filled with Manorteq NonShrink Thix are sealed against water and a variety of other liquids.

Manorteq NonShrink Thix can also be used for the sealing of joints in precast, vertical and non-supported horizontal concrete structures.

Compressive Strength in accordance with EN 12190:

7 Day = 40 MPa

28 Day = 50 MPa

Manorteq NonShrink Thix is suitable and recommended to waterproof voids where Xypex Admix C-Series has been used in the original construction of:

- Anchor holes
- Concrete walls
- Concrete soffits
- Concrete slabs
- Reservoirs
- Concrete tanks





### Use

Manorteq NonShrink Thix provides for the filling of voids to enable the continuation of the waterproofing. It provides protection to anchors. Manorteq NonShrink Thix can also be used for the sealing of joints in precast, vertical and non-supported horizontal concrete structures that contain Xypex Admix.

Voids filled with Manorteq NonShrink Thix are sealed against liquids, including most oil-based products.

### Technical Data

#### Requirements / Results according to EN 1504-6

	Testing Method	Requirement	Result
Pull Out, 75 kN (mm)	EN 1881	$\leq 0.6$	$< 0.3$
Chloride Ion Content (%)	EN 1015-17	$\leq 0.05$	$< 0.02$

#### Physical and Mechanical Properties

Colour	Non-standard grey		
Tensile Bending Strength (MPa)	7 days	$> 7.5$	
	28 days	$> 9$	
Compressive Strength (MPa)	7 days	$> 40$	
	28 days	$> 50$	
Expansion - volume change (Vol.%*)	after 28 days	$+ 0.6$	
Adhesion Bond (MPa)	EN 1542	$> 2$	
Frost Resistance	$> T100$		

\*under the temperature 20 °C (+/- 5) and relative air humidity from 50 - 75%





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## Installation

### Substrate

1. Any dust and loose particles shall be removed from the substrate before application. The concrete surface must not be contaminated by substances which can negatively affect adhesion of the mortar to the substrate (e.g. oil).
2. Before application of the prepared mortar, wetting of the concrete should be thorough and repeatedly undertaken for at least 120 minutes.
3. The thickness of application of Manorteq NonShrink Thix should be a minimum of 20 mm.

### Preparation

1. Manorteq NonShrink Thix is prepared by mixing 3.20 - 3.70 litres of clean water to 1 No. (25 kg) bag of the product.
2. Optimum quantity of batching water can fluctuate, as is usual with mortars containing a cementing binder.
3. Working time of the product is 50 - 60 minutes at 20 °C.
4. Neither the temperature of the substrate, nor the temperature of the ambient air, shall be below +5 °C or above +30 °C during application.
5. It is important to note that the anchor holes, joints etc. should be filled in one application without interruption, to ensure the treated areas are continuous.

## Consumption

Specific consumption of dry mortar is 1.8 - 1.9 kg/dm<sup>3</sup>.

## Packaging

The product is supplied in 25 kg PE lined paper bags.

## Storage

Manorteq cementitious products must be stored dry at a minimum temperature of 7 °C. The product should be used within its shelf life for optimum technical performance, which is 6 months from date of manufacture when stored under proper conditions.





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### Handling and Health & Safety

Manorteq cementitious products are alkaline. As a cementitious powder or mixture, Manorteq NonShrink Thix may cause significant skin and eye irritation. Directions for treating these problems are clearly detailed on all Manorteq cementitious packaging. The Manufacturer also maintains comprehensive and up-to-date Safety Data Sheets on all its products. Each sheet contains health and safety information for the protection of workers and customers. The Manufacturer recommends you contact Manorteq Ltd or your local Manorteq representative to obtain the latest copies of Safety Data Sheets which must be read prior to product storage or use.

### Warranty

Manorteq Limited (Company No. 13817118) warrants to the purchaser that the products supplied by it shall be free from material defect. Should any of the products be proven defective, the liability to Manorteq Limited shall be limited to (at the choice of Manorteq Limited) either replacement of the proven defective products ex-factory, or refund of the NETT ex-factory purchase price at the date the proven defective products were supplied. Manorteq Limited will not be liable or responsible, to such an extent as permitted by law, for any consequential or direct damages, compensation, costs, expenses, losses or other liabilities that may occur as a result of the defective products. Manorteq Limited makes no warranty as to the merchantability or fitness for a particular purpose and the terms of this warranty are in lieu of all other warranties expressed or implied by law.

Please note: This Technical Data Sheet is for general guidance only. It does not constitute as a detailed guide for a specific application. Due to the unique circumstances of every site, each installation must be assessed on a project-by-project basis as there may be many variables to consider. Independent professional advice should be sought on each installation. The information contained within this Technical Data Sheet is to the best of Manorteq Limited's knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness.

