

Grouting Compound

Type 1000A3

for Lineas® Sensors Installation in Cold Weather Conditions

Grouting Compound Type 1000A3 is a two component polyester resin mortar specially developed for cold weather installations of Lineas WIM sensors.

- Rapid curing
- For low temperature
- No need for heating devices
- Good adhesion to road materials and metals
- Rapid strength gain
- Excellent mechanical properties (flexural and tensile strength)
- Very good chemical resistance
- Suitable for any kind of road pavements based on bituminous materials and concrete

Description

Grouting compound Type 1000A3 was developed as an alternative to Type 1000A1 epoxy resin mortar to facilitate Lineas sensor installations in cold weather conditions. It is a two component polyester resin, with good workability and rapid setting and curing time even at temperatures close to 0 °C. Therefore during winter installations Lineas sensors can be rapidly and securely grouted into the road. Type 1000A3 is supplied as a complete bucket containing a can of resin and a bag of powder.

Application

What resin mortar should be used (Type 1000A1 or 1000A3) depends on pavement temperature as shown below.

- Pavement temperatures 1 ... 15 °C (1000A3)
In such cases the newly developed Type 1000A3 can be used (beware: pavement must not be frozen). There is no need to use heating devices. Installation instructions and precautions are to be found in the next pages. All instructions from the Instruction Manual doc No. 9195F_002-466 apply
- Pavement temperatures >15 °C (1000A1)
For such temperature range the epoxy resin Type 1000A1 must be used. Below 20 °C we strongly recommend the use of heating devices to accelerate curing. Please refer to the Instruction Manual for Lineas sensors installation (doc No. 9195F_002-466)



Technical Data

Packaging		20 litre bucket with can of resin and bag of powder inside
Weight		
bucket (complete)	kg	14
resin	kg	3
powder	kg	10
Pavement temperature for installation	°C	1 ... 15
Workability (depending on temperature)	min	5 ... 10
Curing time		
temperature 1 ... 5 °C	h	<2
temperature 5 ... 15 °C	h	<1
Colour		dark brown
Shelf life (when correctly stored)	months	6
Compressive strength	N/mm ²	>100
Flexural strength	N/mm ²	>20
Tensile strength	N/mm ²	>10
Consumption		1 bucket for 1 Lineas sensor

1000A3_000-769e-10.09

Preparation

Slot

- Pavement must not be frozen
- The slot must be dry and clean, free from water, dust, oil and grease
- All loose material and debris that might affect bonding must be removed (shot blasting or vacuum cleaner)
- Pavement temperature can be between 1 and 15 °C
- The pavement surface adjacent to the slot must be covered with tape

Mixing

- Take the resin and powder out of the bucket
- Pour the powder from the bag into the original bucket
- For mixing use an appropriate heavy-duty mixer
- While stirring slowly pour the resin into the bucket to avoid clotting
- Mix thoroughly with an up- and downward movement over the whole bucket area, until an homogeneous mix is attained. This typically takes 2 ... 3 minutes
- Use immediately after mixing
- Do not try to re-mix once the initial setting starts
- Always use 1 tin of resin to 1 pack of powder (entire quantity)

Placing

- Apply the grout immediately after mixing
- The well mixed grout must be cast at once and without interruption. To ensure good adhesion to the slot cuts, spread the grout onto the cut edges using a trowel or a spatula, so that the side surfaces are "painted" all the way up to the top edges
- Ensure evacuation of entrapped air from voids
- For Lineas WIM sensor installation the Kistler Instruction Manual doc No. 9195F_002-466 must be followed

Consumption

A bucket of 14 kg is sufficient for 1 Lineas sensor Type 9195... (of length 1,5 ... 2 m)

Cleaning of Tools

- Tools must be cleaned immediately after use
- If needed use solvents such as acetone or toluene

Storage

Shelf life is 6 months when correctly stored. Store in a dry place at temperatures between 5 ... 30 °C. High temperatures and high humidity will lead to a reduced shelf life.

Safety Precautions

Please refer to safety data sheet doc No. 000-770.

Keep the containers closed when not in use. Avoid the inhalation of fumes and work in well-ventilated areas. The use of barrier creams and protective clothing (including gloves, goggles and facemask) are recommended. Grouting compound Type 1000A3 can be removed from the skin by washing with plenty of water. If swallowed, do not induce vomiting and seek immediate medical attention.

- Avoid skin and eye contact
- Avoid inhalation of dust and vapour
- Wear protective clothing
- Mix only enough material to apply in 4 min
- Clean tools frequently
- Dispose of any unused material and empty containers in a safe approved manner

The information given in this publication is based on the present state of our knowledge but any conclusions and recommendations are made without liability on our part.

Included Accessories

- 1 set including 20 litre bucket with can of resin and bag of powder inside

Type/Art. No.

1000A3

Optional Accessories

- None

Ordering Code

- Grouting compound for Lineas WIM sensor installation for pavement temperatures of 1 ... 15 °C

Type 1000A3