

## PRODUCT DATA SHEET

# LANKO 702 Durabed

High strength, Class A structural grout

### DESCRIPTION

LANKO 702 Durabed was designed to undergo controlled expansion in the plastic state, it will ensure positive and load transfer in structural grouting application. It has been formulated to achieve high early strengths with low water addition levels.

### USES

- Under heavy machinery
- Anchor bolts
- Under column bases
- Under precast panels
- Conveyor support

### FEATURES

- Expansive in plastic state
- High strength for precision grouting installations
- Versatile - can be used in dry pack, plastic and flowable consistencies
- Extended workable time

### PRODUCT INFORMATION

<b>Packaging</b>	5 kg and 20 kg bags
<b>Appearance and colour</b>	grey powder
<b>Shelf life</b>	6 months
<b>Storage conditions</b>	Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +35 °C. Protect from direct sunlight.
<b>Density</b>	~ 2.2 kg/l (depending on consistency and temperature)
<b>Maximum grain size</b>	D <sub>max</sub> : ~ 3 mm

### TECHNICAL INFORMATION

Compressive strength	Dry Pack	Plastic	Flowable	(AS 1478.2)
	1 Day	~ 40 MPa	~ 25 MPa	
7 Days	~ 50 MPa	~ 45 MPa	~ 35 MPa	
28 Days	~ 60 MPa	~ 50 MPa	~ 40 MPa	

## APPLICATION INFORMATION

<b>Mixing ratio</b>	<b>Water addition per 5 kg bag (litre/s)</b>		
	Dry Pack	Plastic	Flowable
	0.63 L - 0.75 L	0.75 L - 0.85 L	0.85 L - 1 L
	<b>Water addition per 20 kg bag (litre/s)</b>		
	Dry Pack	Plastic	Flowable
	2.5 L - 3 L	3 L - 3.4 L	3.4 L - 4 L
These mix ratios are a guide and preliminary trials at local temperatures / humidity conditions are recommended.			
<b>Yield</b>	<b>LANKO 702 Durabed 5 kg bag</b>	<b>LANKO 702 Durabed 20 kg bag</b>	
	2.5 L - 2.8 L	10 L - 11.5 L	
<b>Layer thickness</b>	<b>Consistency</b>	<b>Thickness</b>	
	Flowable & Dry Pack & Plastic	10 mm min. / 100 mm max.	
<b>Ambient air temperature</b>	+10 °C min. / +35 °C max.		
<b>Substrate temperature</b>	+10 °C min. / +35 °C max.		
<b>Pot Life</b>	30 mins approx.		
<b>Setting time</b>	<b>Temperature</b>	<b>Initial Set</b>	<b>Final Set</b> (AS/NZS 2350.4:2006)
	23°C	3.5 hours	4.5 hours

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## FURTHER DOCUMENTATION

LANKO 702 Durabed is tested in accordance with Australian Standards and/or Internationally accepted Standards. The published performance data is achieved by testing strictly in accordance to the procedures of these standards. Any test procedures performed by others on our products that are not in strict accordance with the standard in every facet will likely produce results different from the published above. On site testing by others can be affected by external factors such as incorrect mixing methods, poor sampling techniques, varying temperatures, curing, crushing procedures etc. Sika can provide Certificates of Compliance of all products delivered to site prior to installation if required. If results of site testing or testing facilities by others vary from the Sika published data we recommend the following items be reviewed before contacting the manufacturer as one or all of these items could be influencing the results attained on site. These include but are not limited to the following: site conditions, ambient, substrate and product temperature, mixing equipment, mixer speed, pump equipment, contractor experience, and incorrect test methods. Sika Australia do not take responsibility nor have to make a case for any such tests where results of testing by others do not achieve the published data as above.

## ECOLOGY, HEALTH AND SAFETY

SDS is available from [www.aus.sika.com](http://www.aus.sika.com)  
Being cement-based, LANKO 702 Durabed is alkali in nature which can cause dermatitis. When using LANKO 702 Durabed it is recommended that applicators wear PVC or similar gloves and safety goggles while handling this product  
If dust is generated, wear a suitable dust mask.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The substrate should be prepared by suitable mechanical preparation techniques such as high pressure water, breakers, grit blasting, scabblers, etc. All absorbent surfaces must be well saturated with clean water, but free of any surface water or puddles prior to the application of LANKO 702 Durabed.

#### Concrete, mortar and stone

Surfaces must be sound, clean, free from frost, oils, grease, standing water and all loosely adhering particles and other surface contaminants.

#### Metal surfaces (iron and steel)

Surfaces should be clean, free from scale, rust, oil and grease.

### MIXING

Place about 70–80 % of the premeasured clean water (depending on consistency required – refer to “Mix Ratio”) into a clean container and gradually add the whole bag of LANKO 702 Durabed into it while continuously mixing. Add the remaining water until the desired consistency is obtained. Mix for 3–5 minutes

with a low speed drill (500 rpm max.).

### APPLICATION

After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. The grout is then poured immediately into the prepared formwork. When carrying out baseplate grouting, ensure sufficient pressure head is maintained for uninterrupted mortar flow. For formwork repair, the prepared formwork must be firmly in place and kept watertight. When placing grout over a large area, it is important to maintain a continuous flow throughout. Work sequence must be properly organised to ensure an uninterrupted flow. In large areas, LANKO 702 Durabed may be pumped using heavy duty diaphragm pumps. Screw feed and piston pumps may also be used.

#### Specific Areas of Application

Grouting under baseplate	Flowable consistency
Formwork grouting - pouring method	Flowable consistency
Formwork grouting - pre-packed method	Flowable / Plastic consistency
Grouting anchor bolts	Plastic / Dry Pack
Dry packed / Precast grouting	Dry Pack

**Grouting large volumes:** For sections thicker than 100 mm, it is necessary to fill LANKO 702 Durabed with graded 10 mm silt free aggregates to minimise temperature rise generated during the curing stage. The quantity of aggregates should not exceed 1 part aggregates to 1 part LANKO 702 Durabed by weight. For such mixes, a conventional concrete mixer and pump may be used. To further ensure that air entrapped during mixing is allowed to fully escape, it may be necessary to make breather holes. Use steel rods or chains to assist the flow of grout where necessary. Preliminary trials are recommended.

### CURING TREATMENT

When formwork type repair is used, leave the formwork in place for at least 3 days. Upon removal of the formwork, cure the exposed surfaces immediately with Antisol® curing compound or use other approved curing methods.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be mechanically removed.

### LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a

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