

## PRODUCT DATA SHEET

# LANKO® 731 Structure Repair

## FIBRE-REINFORCED REPAIR MORTAR

### DESCRIPTION

A ready-to-mixed cement based which is designed for repair the damage on structure.

### USES

- Repair of concrete surfaces: spalling, honeycombing.
- Concrete restructuring: pillars, slabs, posts and spillways, etc...
- Reinforcement of weakened structures e.g. balconies, overhangs, cornices.
- Treatment of chambers and seams prior to water-proofing.
- Treatment of passive cracks.

### CHARACTERISTICS / ADVANTAGES

- High application thickness up to 35 mm.
- High compressive strength.
- Excellence bonding.
- Good workability.
- Fast setting.

### PRODUCT INFORMATION

<b>Chemical Base</b>	Hydraulic binder, mineral filler and specific additives.
<b>Packaging</b>	5 kg bucket 25 kg bag
<b>Shelf Life</b>	12 months from the date of production if stored properly in undamaged, original, sealed packaging.
<b>Storage Conditions</b>	Store in dry and cool conditions, protected from direct sunlight. Use canvas or plastic to cover or wrap unused products to protect them from moisture.
<b>Appearance / Colour</b>	Grey powder
<b>Maximum Grain Size</b>	0 - 2 mm
<b>Density</b>	1.1 - 1.3 kg/L

# TECHNICAL INFORMATION

Compressive Strength	<b>1 day</b>	<b>7 days</b>	<b>28 days</b>
	≥ 20 MPa	≥ 30 MPa	≥ 45 MPa
Tensile Strength in Flexure	<b>1 day</b>	<b>7 days</b>	<b>28 days</b>
	≥ 5 MPa	≥ 6 MPa	≥ 8 MPa

## APPLICATION INFORMATION

Consumption	2 kg / sq m / 1 mm
Ambient Air Temperature	+10°C to +35°C
Mixing Ratio	4.25 to 4.5 litre water per bag 25 kg

## 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.

## LIMITATIONS

- Store the bags of mortar in cool shaded conditions and temperature of mixing water should be below 30°C.
- Do not apply in full sunlight, windy conditions or hot substrate.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

1. Ensure that the substrate is free of any traces of plant-based or mineral pollution, e.g. grease, oil, laitance, etc...
2. Remove loose and damaged concrete by means of a suitable tool in order to obtain a clean, rough surface.
3. Clear out concrete around corroded rebar in order to create space for inserting the product behind and around them. The boundaries of the surface to be repaired must be clearly defined.
4. Brush, scrape or sandblast corroded rebar in order to remove non-adherent rust.
5. Dust off all surfaces to be repaired.
6. Soak the substrate prior to application (substrate must be damp but not seeping with water)

## MIXING

1. Mix LANKO 731 STRUCTURE REPAIR with 4.25 - 4.5 l of clean water (clean water 17 - 18 % per mortar weight).
2. Mixing should be carried out as follows: By machine mix with recommended speed at 500 rpm.
3. Mixing time: at least 3 minutes or required consistency is obtained.
4. Leave the mixture to stand for 1 - 3 minutes.
5. Do not add water after mixing.

## APPLICATION

1. Apply a first coat of LANKO 731 STRUCTURE REPAIR with a trowel, pressing firmly to ensure effective bonding, building up to required thickness in one single operation. A maximum thickness is 35 mm.
2. The case of repairing the corner of the concrete column, use 2 trowels on each side of the corner to prevent over use of mortar on the corner.
3. Apply additional mortar to obtain the desired overall thickness. Smooth the surface with a trowel or float the repaired surface for a smooth finish.

## CURING TREATMENT

After finishing, protect the mortar from drying out by applying LANKO 361 CURE.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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 particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

### SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,  
6 On Ping Street, Shatin, N.T., H.K.  
Phone: +852 26868108  
Fax: +852 26453671  
Mail: [marketing@hk.sika.com](mailto:marketing@hk.sika.com)  
Website: [www.sika.com.hk](http://www.sika.com.hk)



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