



# LANKO 780

## FLUID REPAIR MORTAR

A QUICK SETTING MORTAR FOR CONCRETE REPAIRS AND NON-STRUCTURAL ANCHORS

### WHERE TO USE

Davco Lanko 780 Fluid Repair Mortar is a pourable, shrinkage-compensated repair mortar composed of graded aggregates and special cements.

#### Uses

Suitable for non-vibration restructuring of damaged elements such as pillars, beams, slabs, posts, and dam aprons. Reinforcement of weakened structures such as balconies, overhangs, etc. Ideal for form and pour casting, pillars and posts and sporadic floor repairs.

### PRODUCT INFORMATION

#### Coverage

20kg bag of Lanko 780 Fluid Repair Mortar covers approximately 11m<sup>2</sup> at 11mm thickness

#### Application

10-100mm maximum thickness

#### Set Time

Final set time 1.5 hours

### FEATURES & BENEFITS

- Excellent workability
- Pourable
- Quick setting
- Superior flow
- Smooth finish
- Shrinkage compensated

### PACKAGING

Available in a 20kg bag



**MADE IN  
AUSTRALIA**

## TECHNICAL

TECHNICAL DATA	LANKO 780
Appearance	Grey powder
Shelf life when stored unopened in elevated, cool, dry location	12 months

Values presented are typical and not necessarily referenced to create specifications. All measurements are taken at 20°C and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only.



Davco products manufactured in Australia are produced in accordance with quality management systems certified as complying with AS/NZS ISO 9001:2008.

Quality  
ISO 9001  
SAI GLOBAL

TEST DATA	CRITERION	TYPICAL TEST RESULT
Particle size		0-1 mm
Pot life at 20°C		45 minutes
Initial set at 20°C		90 minutes
Final set at 20°C		2 hours
Test method: EN 196-1		
Flexural mechanical strength	1 day	3 MPa
	2 days	5 MPa
	7 days	5.5 MPa
	28 days	7 MPa
Test method: EN12190		
Compressive mechanical strength	1 day	8 MPa
	2 days	20 MPa
	3 days	35 MPa
	Final	50 MPa
Test method: RMS T363		
Alkali reactive particles		<0.1% (Non-reactive)



- A test should be undertaken in all cases to ensure suitability

### SURFACE PREPARATION

- Remove loose and damaged concrete and laitance using a point tool, chisel, or planing tool in order to obtain a clean, rough surface
- Substrate must be at least 28 days old and offer a cohesive performance of at least 1 MPa in direct traction
- Clear out concrete around corroded rebars in order to create space for inserting the product behind and around them
- Ensure that the substrate is free of any traces of plant-based or mineral pollution such as grease, oil, laitance, etc
- Brush, scrape or sandblast corroded rebar in order to remove non-adherent rust
- Dust off all surfaces to be repaired
- Soak the substrate prior to application (substrate must be damp but not seeping with water)

### PRIMER PREPARATION

- Previously corroded rebar should be passivated using a slurry mix of 2 parts Lanko 780 Fluid Repair Mortar and 1 part Lanko 751 Lankolatex
- Ensure that all necessary surface preparation work has been meticulously carried out
- Soak the substrate with water prior to application
- Remove any excess water with dry rags or compressed air

### MIX PREPARATION

#### Mix Ratio

SITUATION / REQUIREMENT	MIX REQUIREMENTS PER 20KG
General applications	4L of clean, potable water

- The mortar is made up by mixing Lanko 780 Fluid Repair Mortar with clean, potable water
- Mix small quantities by hand with a trowel and trough, or large quantities by machine such as an electric drill mixer. Lanko 780 can also be pumped if large quantities are required
- Mix for at least 3 minutes until evenly distributed
- Mix at no faster than 300 RPM
- Workable life after mixing is approximately 20 minutes at 20°C

#### Yield

POWDER QUANTITY	WATER	WORKABLE MORTAR
20kg	4L	11L

## Mix Process

1. The mortar is made up by mixing Lanko 780 Fluid repair Mortar with clean water.
2. Mix by hand with a trowel and trough or by an electric drill mixer. Lanko 780 can also be pumped if large quantities are required.
3. Mix for at least 3 minutes until a homogeneous mixture has been obtained.
4. No water must be added during application.

## APPLICATION

1. In view of its fluid consistency, Lanko 780 Fluid Repair Mortar is applied by pouring onto a damp substrate from which all surface water has been removed.
2. If formwork is used, it must be completely watertight.
3. Lanko 780 Fluid Repair Mortar must not be subjected to vibrations.

## Curing

- Protect the fresh mortar from rapid drying. This can be achieved by covering with polyethylene film or damp cloth

## Clean-up & Return to Service

- Clean mixing and application equipment with water immediately after use
- Remove splatter or spills with water before material sets
- Lanko 780 Fluid Repair Mortar contains cementitious materials and if allowed to dry, removal becomes extremely difficult

## PRECAUTIONS

### Safety

- SDS is available from [www.davcoaustralia.com.au](http://www.davcoaustralia.com.au)
- It is recommended that applicators wear PVC or similar gloves and safety goggles while handling this product
- Keep out of reach of children. If eye contact occurs, rinse with cool water
- If ingested get immediate medical assistance

### General

- Do not use when temperatures are below 5°C or above 35°C
- In low temperatures initial setting times and formwork removal times will be significantly longer
- Do not apply to a frozen or thawing substrate
- Apply only to clean, sound substrates, free of loose material

## Specific

- Protect exposed surfaces with a suitable curing product as soon as setting begins
- Soak the substrate before application
- Do not mix Lanko 780 Fluid Repair Mortar with other hydraulic binders such as portland cement, high alumina cement, plaster etc
- For other uses not mentioned in these instructions, please visit [www.davcoaustralia.com.au](http://www.davcoaustralia.com.au)

## 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.