



FORMFIX

Resin Based Construction Materials

RESOFORM MANHOLE LEVELLER

Has been specifically developed for the resetting of manhole frames and other street ironwork in accordance with the recommendations of the Design Manual for Roads and Bridges HD 27/94, "Mortars for bedding ironwork" Vol 7 Sec 2.

Typical properties:

- sets in 20-40 minutes and is stronger than concrete in one hour.
- develops bond strengths in excess of the surface tensile strength of concrete
- is waterproof and resistant to a wide range of chemicals
- can be used in temperatures below freezing
- is easy to use and save time and labour

Technical data

Typical Compressive Strengths - 38 mm cubes @ 20°C

1 hr >50 N/mm²

24 hrs >80 N/mm²

Ultimate >90 N/mm²

Typical Tensile Strength -
15 N/mm² minimum

Typical Flexural Strength -
27 N/mm² minimum

Direct Tensile Bond
Concrete: 2.6 N/mm² (Concrete failure)
Grit Blasted Steel: 4.8 N/mm²

Shear Bond
Concrete: 10 N/mm² (Concrete failure)
Grit Blasted Steel: 7 N/mm² minimum

Chemical Resistance

Specimens were immersed in reagent for 28 days at room temperature then tested for residual flexural strength. The following reagents produced nil or minimal loss of flexural strength.

Sulphuric Acid 10%	Citric Acid 10%	Hydrogen Peroxide 10%
Hydrochloric Acid 10%	Caustic Soda Solution 40%	Isopropyl Alcohol
Nitric Acid 5%	Ammonia 5%	Glycol
Phosphoric Acid Conc.	Common Salt Solution 10%	Toluene
Acetic Acid 10%	Seawater	Petrol
Lactic Acid Conc.	Calcium Chloride Solution	Diesel Oil

RESOFORMMAST MANHOLE LEVELLER is not recommended for strong Alkalis, Phenols, Ketones and Oxidising Agents.

Use

Surface Preparation

Surfaces should be clean, touch-dry, sound and free from laitence, dust and any contamination.

Mixing

Empty the entire contents of the resin container into the bucket. Add the activated filler whilst slowly mixing. Once a homogenous mix is achieved use immediately. Do not mix part packs. Use within 10 minutes of mixing.

formworkdirect.co.uk
TEL:
(+44) (0)151 532 0179
EMAIL
sales@formworkdirect.co.uk



formworkdirectmalta.com
TEL:
+356 2124 4241
EMAIL
formworkdirect@polidano-group.com



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Application

Apply as pads to corners of frame to more than height required. Set frame on pads and tap down to match levels. Pack **RESOFORM MANHOLE LEVELLER** under remaining open sections of frame to achieve support over full area of frame. Backfill after **RESOFORM MANHOLE LEVELLER** has set. Reopen to traffic after 1 hour.

NOTE. Setting time and strength development are affected by temperature. At low temperatures allow extra time for strength to build before opening to traffic.

Where lateral support is required mix and pour **RESOFORM MANHOLE LEVELLER FF** around the frame.

Cleaning of Equipment

Clean with **RESOKLENS** immediately after use. Do not allow material to set hard on equipment before cleaning.

Storage

Keep all containers sealed when not in use and protect from damp and heat. Stored under correct conditions hardener has an indefinite shelf life and resin will have a shelf life in excess of one year. If use in cold conditions is expected store at 20-25°C.

Health and Safety

Resin is inflammable with a flash point of 32°C. Do not permit smoking or naked flame and maintain adequate ventilation in the vicinity of the working area. Avoid contact with skin and eyes by use of protective clothing and goggles. If skin contact should occur, remove material with paper towel; apply a resin removing cream and wash with soap and water. Never use solvents for cleaning skin, as it will have a de-fatting effect. If contact with eyes should occur irrigate immediately with copious quantities of clean water and seek medical attention without delay.

Reference should be made to the separate **RESOFORM MANHOLE LEVELLER** Health and Safety literature.

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