



LABONDGROUT R601

Hydraulic Liquid Cement For Cracks Repair

液態修補英泥-裂縫灌漿

1.0 Description

LABONDGROUT R601 is a ready-to-mix powder formulated with a hydraulic binder which can mix with water to produce a very fluid mortar with excellent adhesion to concrete and high strength when it is cured. This liquid cement does not segregate, sweat, or separate from substrate. It can withstand corrosive solutions including sulfates, sea water.

2.0 Technical Data

Appearance	: very fine, grey powder
Particle Size	: 12 microns
Main ingredient	: Superfine Portland Cement
Additives	: Selected compounds
Mixing water	: 4.5 L per 10 kg of LABOND R601 powder (W/C = 0.45).
Marsh cone flow value (10mm diameter)	
Initial flow	: 10 to 20 seconds
Flow after 90 minutes	: 20 to 30 seconds
Setting time at 20°C	
Begin setting	: 17-20 hours
End setting	: 20-22 hours
Adhesion to concrete(NFP Standard 18-894)	
Dry substrate	: 5 Mpa
Moist substrate(NFP standard 18-891)	: 6 Mpa
Temperature range for use	: 5 to 40 °C

Mechanical strength (Mpa)

	2 days	7 days	28 days
Compressive	40	60	70
Tensile	5	7	9

3.0 Typical Application

Injection concrete cracks. Regeneration of porous and spongy concrete, Regeneration of masonry structures, Injection under plates, or slabs.

4. Application Details

4.1 Preparation of injection points

- Locate and put marking point along tracks of cracks so as to identify their running pattern, i.e Horizontal or Vertical, for arranging effective injection sequence.
- Depending on where the cracks exist, such as concrete, plaster/render layer, select suitable type of injection nozzles and fix them onto the crack in right angle direction with average distance of injection point about 200 – 400 mm. Consult technical advice from manufacturer.
- Fix the nozzles by suitable material, such as Master Proofer S188, LABOND S525e or other equivalent adhesive.
- Seal along tracks of cracks by Cementitious (Labond C109) or Epoxy putty (MP Putty) to avoid extrusion of excessive grouting material from crack.



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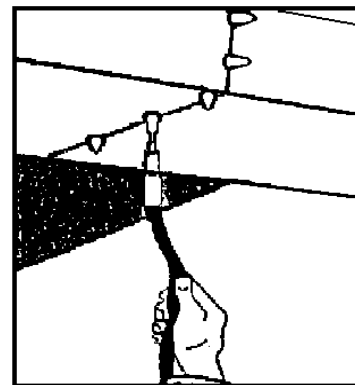


4.2 Injection operation

- Prepare mortar mixture of LABOND R601 with correct c/s ratio i.e. 0.45; during hot weather condition ($>32^{\circ}\text{C}$), c/s ratio may be adjusted to 0.5
- Make ready either the electric grouting equipment (LABOND A918) or manual injection pump.
- For Vertical CRACK, start injection from lower point to higher point
- For Horizontal CRACK, start injection from narrow CRACK side to wider CRACK side.
- During injection operation, excessive material will be flowing along the crack from point to point until every injection point had fully grouted. It should control the injection equipment pressure not higher than 100 BAR. In case material does not flow, it implies that the path of CRACK point had been filled up.
- In some cases, material keep flowing without ending; it implied that the track of crack are not completed sealed or material running out to another side of façade.

4.3 Quality Control

- LABOND GROUT R601 will develop strength within 2 day up to 40 Mpa.
- Depending on the original concrete condition, grouting of Labond R601 will regenerate at least 80% of compressive strength of structure which is weakened due to CRACKS problem.



5.0 Health and Safety

Product contains cement which may cause dermatitis. Wear rubber gloves when handling the product. In case of insufficient ventilation, put on suitable respiratory equipment. Product is classified as non-hazardous.

6.0 Technical Services

The Technical office of MASTER PROOFER COMPANY LTD are available for advice on any of LABOND's products.

7.0 Packaging

15 kg / drum