TECHNICAL DATA SHEET

PLAKA – FIBRE CONCRETE TUBE

Formwork distance tube in fibre concrete

REF 04.01.14 - Version V02 – 18/12/2020

Description

Formwork distance tube in fibre concrete. Gives better watertightness than a PVC sleeve, provided that the tube is moistened well before concreting.

Application fields

To allow the passage of dwg bars through the concrete walls.
In case a watertight system is required, use the fibre concrete tube in combination with the “Colmatube” (e.g. for cellar walls, foundations, water tanks, water treatment plants, etc.).

Properties

Mechanical properties	
Quality:	Fibre concrete, does not contain asbestos.
Features:	The fibre enforced concrete plugs comply with the requirements for protection against fire and also correspond to the norms of class B2.

Instructions for use

- The tube has to be moistened correctly before the pouring of the concrete
- Ensure a thorough coating of the sleeve during the concreting
- Avoid direct contact with the needle vibrator
- Wait at least 5 days before filling the tube

Detailed instructions for filling the tubes with the two-component glue STOPFIX in the watertight concrete:

- The fibre concrete tubes may also be applied for a watertight concrete, if the concrete itself meets the requirements of a “watertight concrete”.
- The tubes will be fixed correctly and well-moistened before concreting.
- During the pouring of the concrete, it must be kept in mind that the tubes need to be thoroughly coated with the surrounding concrete.
- After removal of the formwork, the sealing of the tubes may be started, provided that the concrete has been set and dried for at least 5 days (longer at lower temperatures).
- According to this procedure, all concrete walls that are in direct contact with water, such as in water towers, water treatment plants, swimming pools, basement walls, and concrete retaining walls in above ground and underground works, need to be filled.

For further information, please contact your Leviat office.
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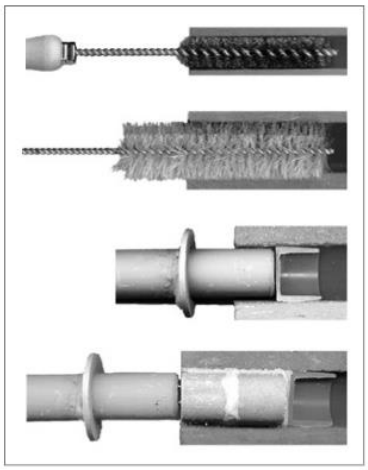
Sealing procedure:

(Abb. ähnlich)



- Clean off the damp concrete and dust inside the tube using a cleansing tool, such as a round brush or a hand drill. The tubes should be as dry as possible.
- Go over them again with a soft brush, to remove the remaining residue.
- Only use the two-component glue STOPFIX.
- The stops should be adapted to the diameter of the tube, and should in no case be too tight. When ordering the tubes, please mention that these are to be applied in a watertight concrete.
- The sealing is carried out as follows:
  First close the tube end that is in contact with the water pressure by means of two stops.
  Push a PVC plug into the fibro-concrete tube, to a depth of 4 cm, using the appropriate plunger or any other tool to adjust the depth.
  Immerse the first stop in the glue, turn so that it is perfectly coated on its whole surface. Then push it back into the tube so that it is fully in the tube. Push it back into the tube again by about 10 mm. Prepare the second stop in the same way. Push it in until it is refused so that the glue perfectly surrounds the stop and forms a complete film between the stops. Spread the excess glue in the imprint left by the PVC conical nozzle.
  The stops should, therefore, be left to rest for a few hours to harden. Then close the other end with two stops in the same way. Without this waiting period between the two operations, the compressed air would be able to push the stops partially out of the first side.
- In the case that the stops are not adapted in the tube because of wet concrete waste, it is necessary to first drill the tube by means of a Widia drill.
- If a water pressure test is required, do this only at the side of the first stops after having waited at least 4 days so that the glue has cured. Subsequently, the pool or basement can be put under pressure. It is only after this test that we can close the other side of the tube with two stops as described in point 4.
- It is not recommended to apply the bonding below 5°C. The two components of the glue STOPFIX do not react together below this temperature.
- Follow the instructions related to the glue.
- This work must only be carried out by a qualified person. The result depends on it.

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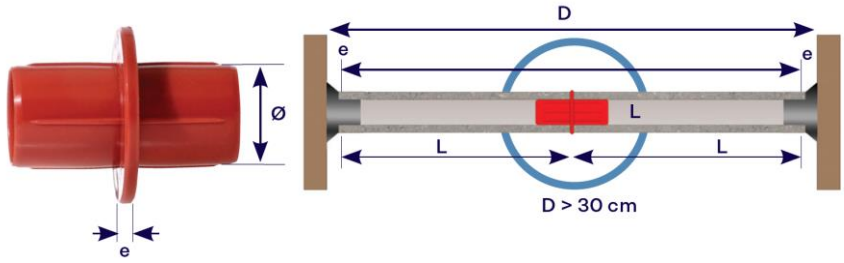
It is possible to make tubes fire-resistant. To do so, please follow the instructions below:

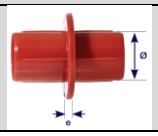
Fire resistance*			
Fire resistance class	Minimum filling thickness (mm)		Type of closure
	Reinforced concrete walls		
	Non-carrier	Carrier	
F30	80	120	With 2 stops (2 cm) on each side With 1 stop (5 cm) on each side
F60	90	130	
F90	100	140	
F120	120	160	
F180	150	210	

*According to Test Report No. 1395/2019 (Building Materials Testing Institute, Institute for Building Materials, Solid Construction and Fire Protection. The Technical University of Braunschweig)

To obtain a good acoustic barrier, use two or more fibro-concrete stops that will represent 4/5 of the tube's length. For gas tightness, the "Spezial-Quellmörtel" mortar must be used over the entire length of the pipe (on request).

For fabrics thicker than 30 cm, it is not advisable to use a single-length tube. There is a high risk of bumping the tubes with the vibrating rod and breaking or splitting them. In this case, slurry may enter the tube and it will be difficult to remove the through rods.
We therefore recommend the use of a PVC coupling sleeve for longer lengths. This will allow a certain flexibility in case of shock.
The PVC coupling sleeve makes it possible to achieve the desired lengths over 30 cm.



Accessories					
Diagram	Code	Φ mm	e mm	f/box	Kg/100
	FRMANCH22	22	3.00	250	0.48
	FRMANCH27	27	3.00	250	0.52
	FRMANCH32	32	3.00	125	0.65

Dimensions & accessories

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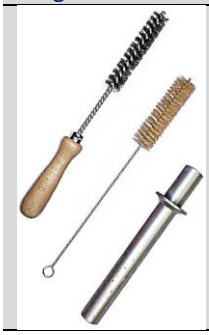
Dimensions and materials						
Code	Diagram	Φ inside (mm)	Φ outside (mm)	Kg/m	m/Pal	m/Box
FRTUB22		22	40	1.81	750	1.25
FRTUB27		27	47	2.10	625	1.25
FRTUB32		32	48	2.48	500	1.25

Accessories				
Diagram	Code	Description	f/box	Kg/1
	FRBROSS	Metallic cleaning brush	1	0.10
	FRBROSSPVC	Smooth cleaning brush	1	0.05
	FRBOUCHC	Steel guide for tube diameter 22 mm	1	0.45

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