

MasterRoc MP 355 IK

System based on highly reactive polyurethane foams, indicator for injections of waterproofing and consolidation in cracked supports and loose soils.

Material description

MasterRoc MP 355 IK is a single-component, solvent-free, hydroactive, low viscosity, fast reacting polyurethane foam

Fields of application

MasterRoc MP 355 IK is typically indicated in tunneling for:

- sealing of water inlets, even in the presence of flow and pressurized water up to 8 bar;
- support of stratified rocks with poorly cohesive joints in the presence of water;
- support of loose soils (gravels and coarse sands) in the presence of water.

Features and benefits

MasterRoc MP 355 IK only reacts in a humid environment; it has excellent adhesion characteristics even on wet surfaces and is able to waterproof in the event of water percolation.

The reaction that gives rise to the foam develops a noticeable increase in volume. The foam that is created is characterized

by an open cell structure and is therefore not suitable for permanent sealing of dripping and percolations. In the case of copious water leaks and pressures above 8 bar, it is recommended to use MasterRoc MP 355 Thix, two-component polyurethane resin. In case of use for soil support, the product is compatible with mechanized excavation (TBM) thanks to the fragility of the foam which can be easily excavated.

Packaging

MasterRoc MP 355 IK: tanks of 25 Kg.

MasterRoc MP 355 IK accelerator: 2.5 kg tank.

Storage

MasterRoc MP 355 IK must be stored in a cool and dry place, in special airtight containers (the humidity in the air can give rise to a reaction).

If stored observing the above precautions, the storage time is 12 months. Both components of the MasterRoc MP 355 IK must be kept at temperatures above 5°C.

Technical data				
MasterRoc MP 355 IK	Viscosity at 23 °C	300 mPa s		
	Density	1.15 g / cm ³		
	Color	Brown		
	Smell	Odorless		
	Application temperature	Between + 5°C and + 40°C		
MasterRoc MP 355 IK accelerator	Viscosity at 23°C	70 mPa s		
	Density	1.1 g / cm ³		
	Color	Clear yellowish		
	Smell	Pungent		
	Application temperature	Between + 5°C and + 40°C		
	Foam factor	(at 23°C and 10% acceleration) without confinement I: 25-30		
Reaction time at an accelerator dosage of 10%				
Initial temperature, (°C)	5	10	15	20
Reaction start, (sec)	120	60	25	10
End of reaction, (sec)	300	200	110	50
Foam factor, (vol)	ca. 25	ca. 25	ca. 25	ca. 30

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Application sheet

Application method

In the presence of water

- Add the appropriate accelerator to MasterRoc MP 355 IK in a quantity between 2-10% depending on the required reaction time.
- Inject the above mixture using a single-component injection pump. The water / humidity in the ground or in the support will favor the development of the foamy reaction.

In the absence of water

- For the purpose of a correct intervention, inject with water only the voids or cracks that you want to treat in order to make the intervention area moist.
- Then follow the procedure described above (previous points) for the intervention "In the presence of water".

Note:

At the end of the injection operation, it is recommended to clean the equipment by pumping a certain amount of MasterRoc MP 230 CLN cleaner. In this way the pump remains clean until the next use. If you do not have the foresight to perform this operation, you run the risk of clogging the injection lines due to the probable reaction between residual product, left inside, and humidity in the air.



Warnings

MasterRoc products are for professional use. For further information, consult the Master Builders Solutions Italia Spa area technician.

Safety instruction

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

Other services

For additional technical information, brochures, references, technical reports and technical support please visit www.master-builders-solutions.com/it-it or alternatively contact infomac@masterbuilders.com.

Scan QR code to visit the product page and download the latest version of this technical data sheet and any additional documentation.



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Disclaimer

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.

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