

MasterRoc MP 355 IK DW

Highly reactive, expanding polyurethane resin for the permanent sealing of water outlets and the restoration of cracked concrete and construction joints.

Material description

MasterRoc MP 355 IK DW is a single-component, hydroactive, expanding, solvent-free polyurethane foam, enabled for contact with drinking water (DW standards for drinking water).

Fields of application

MasterRoc MP 355 IK DW is particularly suitable for:

- sealing of water outlets;
- filling of voids produced by percolating water;
- filling of voids and cavities, in cracked rocks and loose soils, in the presence of water;
- sealing of water inlets from construction joints of concrete castings and between TBM segments.

Features and benefits

MasterRoc MP 355 IK DW is a solvent-free polyurethane compound, particularly suitable for filling and sealing injections. The product reacts particularly well in humid conditions.

- Reacts in a humid environment;
- excellent adhesion on wet surfaces;
- sealant for water leaks.

Packaging

MasterRoc MP 355 IK DW: tanks of 25 Kg.
MasterRoc MP 355 IK accelerator: 2.5 kg tank.

Storage

MasterRoc MP 355 IK DW must be kept in its original containers well closed, in a cool and dry place. By scrupulously respecting this condition, the useful life time of the product is 12 months.

MasterRoc MP 355 IK DW must be protected from frost.

Technical data				
MasterRoc MP 355 IK	Viscosity at 23°C	700 mPa s		
	Density	1.16 g / cm ³		
	Color	Yellowish		
	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 1 : 25-30		
Reaction time at an accelerator dosage of 10%				
Initial temperature, (°C)	5	10	15	20
Reaction start, (sec)	130	65	30	15
End of reaction, (sec)	350	250	120	60
Foam factor, (vol)	ca 20	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 DW 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.



Reaction time

The reaction time depends not only on the temperature of the support to be injected, but also on the temperature of the product itself.

The examples of reaction times with different accelerator dosages (see Table 1) were measured in the laboratory. To establish the correct reaction times on site it is advisable to carry out some preliminary tests.

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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