

MasterInject 1360

Two-component epoxy resin, with very low viscosity, not solvent-based, for consolidating injections in concrete structures.

MATERIAL DESCRIPTION

MasterInject 1360 is a two-component epoxy resin, with very low viscosity, not solvent based, characterized by a high penetration capacity.

FIELDS OF APPLICATION

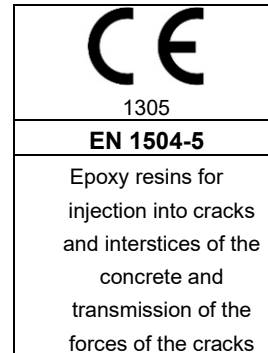
MasterInject 1360 is used to perform structural injections and bonding of cracks and rigid joints in beams, pillars, industrial floors with a maximum size of 5 mm. It is also suitable for anchoring reinforcement and for casting joints. It can be applied by casting or by low pressure pumps both in reinforced concrete structures than in masonry.

FEATURES AND BENEFITS

The peculiar characteristics of MasterInject 1360 are:

- low kinematic viscosity: allows the resin to penetrate into the smallest cracks and voids;
- excellent adhesion: this requirement, also guaranteed by the absence of solvent, allows to obtain monolithicity with the support;
- high mechanical performance both in compression and in traction;
- dielectricity: (about 1012 .m) essential property for isolation from stray currents or dispersions;
- resistance to the most common acids, alkalis, solvents and hydrocarbons;
- impermeability: the material is also suitable for permanent contact with water absence of cement: the absolute absence of cement makes the product fully compatible with the masonry that you want to consolidate.

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 1504-5 and the relative DoP (Declaration of Performance).



CONSUMPTION

1.10 kg / liter of volume to be filled.

PACKAGING

5 kg kit package consisting of:
comp. A, 3.86 kg bucket,
comp. B, 1.14 kg bucket.

STORAGE

Store the product in a covered, cool and dry place (10 ÷ 30°C) away from direct contact with the sun, fire or open flames. If the temperature drops below 10°C, the resin could show an increase in viscosity and the formation of lumps. In these cases, before using it, heat the packages by immersing (with the package closed) part of the can in hot water until the lumps disappear.

MasterInject 1360

Two-component epoxy resin, with very low viscosity, not solvent-based, for consolidating injections in concrete structures.

Technical Information			
Specific gravity (of the two mixed components) ASTM-D 1475		1.15 + 0.05 kg / dm ³	
Pot-life (for 200 gr. of mixture, at 23 ° C), minutes		40	
Usage time (for 500 g of mix, at 23 ° C), minutes		20	
Usage time (for 500 g of mix, at 30 ° C), minutes		5	
Usage time (for 500 g of mix, at 10 ° C), minutes		60	
Maximum applicable thickness		5 mm	
Pot-life (for 200 gr. of mixture, at 23 ° C), minutes		40	
Usage time (for 500 g of mix, at 23 ° C), minutes		20	
Dough ratio		A: B = 3.38: 1	
Consistency of the dough		Castable-injectable	
Permitted application temperature		From 5 ° C to 35 ° C	
Packs		5 kg kit	
Essential characteristic in accordance to UNI EN1504-5			Performances
Water absorption		UNI 7699	<0,1%
Determination of adherence of injection products with thermal cycles. Traction grip -2 Slit width up to 0.5 mm	Status of the DRY support for injection. After 24 thermal cycles UNI EN 13687-3	UNI EN 12618	> 2.5 MPa break support
	Status of the WET injection support. After 24 thermal cycles UNI EN 13687-3		> 2.5 MPa break support
Determination of adherence of injection products. Compatibility with concrete. Traction grip Slit width up to 0.5mm	Status of the DRY support for injection	UNI EN 12618-2	> 2.5 MPa break support
	Status of the WET injection support		> 2.5 MPa break support
Determination of injectability with the sand column method	WET	UNI EN 1771	Evaluation of injectability: EASY
	DRY		Evaluation of injectability: EASY
Compression modulus of elasticity		UNI 4279	2500-4000 MPa
Viscosity	10°C	ASTM D 2196	250 mPa·s
	23°C		250 mPa·s
Characteristics of adhesion after 7 days: resin-concrete (type TC0,40)		UNI EN 1542	> 3,2 MPa
Compressive strenght	24 h	ASTM D695	> 50 MPa
	7 days		> 70 MPa
7 days elastic moudulus		ASTM D695	3100 MPa
Tensile strength for bending	24 h	ASTM D790	> 10 MPa
	7 days		> 40 MPa

MasterInject 1360

Two-component epoxy resin, with very low viscosity, not solvent-based, for consolidating injections in concrete structures.

APPLICATION SHEET

MIXING

Mechanically mix component A before adding component B. Once component B has been added, mix with a whisk drill (approx. 200 rpm) for about 1 minute until a uniformly colored compound is obtained.

APPLICATION

Surfaces must be clean, compact and free from dust and grease. MasterInject 1360 will be injected into the cracks following the usual technique of injections of consolidating epoxy resins. Drill holes along the crack to a depth of 10 ÷ 15 cm.

The distance between the holes and the number of them varies in relation to the presumed depth of the cracking state.



Eliminate the crumbly and incoherent parts and carefully dust the surface with compressed air, then attach copper tubes with a section of 8 mm in the holes, seal the cracks and fix the injection tubes with the adhesive MasterBrace ADH 4000.



When the seals guarantee the seal (after about 24 hours) connect the pump to the lower tube and proceed with the injection, gradually increasing the pressure; the leakage of resin from the upper tube indicates the filling of the treated crack

MasterInject 1360

Two-component epoxy resin, with very low viscosity, not solvent-based, for consolidating injections in concrete structures.



TOOL CLEANING

Use epoxy thinner (E100 thinner) or Nitro.

WARNINGS

MasterInject 1360 is a product 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 price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website www.master-builders-solutions.com/it-it or contact infomac@mbcc-group.com.

Scan the QR code to visit the product page and download the latest version of this datasheet.



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.

Master Builders Solutions Italia Spa

Via Vicinale delle Corti, 21 – 31100 Treviso – Italia

T +39 0422 429200 F +39 0422 421802

www.master-builders-solutions.com/it-it

e-mail: infomac@mbcc-group.com

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.