

# MasterInject 1360

Formely: CONGRESIVE SUPERFLUIDO

**Solvent-free, very low viscosity two-pack epoxy resin designed for casting and low-pressure injection**

## DEFINITION OF MATERIAL

MasterInject 1360 is a solvent-free, very low viscosity two-pack epoxy resin featuring a high capacity of penetration.

## MAIN FIELDS OF APPLICATION

MasterInject 1360 is used for injections and structural bonding of cracks and rigid joints in beams, pillars and industrial floors maximum 5 mm thick. It is also suitable for anchoring reinforcement rods and for construction joints. It may be applied by casting or by low-pressure pumps into both reinforced concrete and masonry structures.



## FEATURES

The features peculiar to MasterInject 1360 are:

- low kinematic viscosity: allows the resin to penetrate the smallest cracks and voids;
- excellent adhesion: this requirement, also ensured by the lack of solvent, allows monolithicity with the substrate;
- high compressive and tensile strength;
- dielectricity: (r.c. 1012 Ωm) indispensable property for isolating from stray currents of leaks;
- resistance to the most common acids, alkalis, solvents and hydrocarbons;
- impermeableness: the material is also suitable for permanent contact with water.

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<b>UNI EN 1504 - 5</b> Resine epossidiche fluide per iniezione in fenditure, fori e interstizi del cemento e trasmissione degli sforzi delle fenditure U (F1) W (10) (1/2) (5/30) (0)	
<b>Adesione per resistenza a trazione</b> <b>Adesione per resistenza al taglio inclinato</b> <b>Ritiro</b> <b>Temperatura di transizione vetrosa</b> <b>Lavorabilità</b> - Larghezza della fenditura: - Fenditure asciutte e umide: <b>Viscosità</b> periodo di lavorabilità aperto (±20%) <b>Sviluppo della resistenza a trazione</b> <b>Durezza</b> <b>Comportamento alla corrosione</b> <b>Sostanze pericolose</b> <b>Movimento della fenditura durante la maturazione</b> <b>Temperatura di transizione vetrosa</b>	Conforme (rottura coesiva in supporto) Rottura monolitica < 3% > 40° C a partire da 1,0 mm asciutta e umida a 10 °C, 3 h a 21 °C, 70 min a 30 °C, 30 min.. < 72h Conforme Privo di effetti corrosivi Secondo 5.4 Privo di movimenti 5 °C e 30° C

## PERFORMANCE

The performance values given below have been obtained at a T=20°C; Ur > 90%

Metodo di prova	Prestazione
E modulus UNI 4279, MPa	2500-4000
Viscosity, ASTM D 2196	
10°C	250 mPa·s
23°C	250 mPa·s
Maximum thickness	5 mm
Adhesion after 7 days: - resin-concrete (C 0,40 type), UNI EN 1542	> 3,2 MPa
Compressive strength, ASTM D695	
24 hours	> 50 MPa
7 days	> 70 MPa
E modulus after 7 days	3100 MPa
Tensile strength after 7 days, ASTM D638:	
-E modulus	> 10 MPa > 40 MPa

## COVERAGE AND PACKAGING

1,10 kg/litre by volume to be filled.

5 kg pack consisting of:

- part. A, 3.86 kg can,
- part. B, 1.14 kg can.

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## APPLICATION SHEET

### STORAGE

Store the product in a sheltered, cool and dry place (10÷30 °C) far from direct contact with sunlight, fire or naked flames. Should the temperature fall to below 10°C the resin could increase in viscosity and form lumps. In this case before using the product, warm the cans (tightly closed) by standing them in hot water until the lumps disappear.

### MIXING

Mechanically stir part A before adding part B. Once part B has been added, mix well using a drill with whisk attachment (approx. 200 rpm) for about 1 minute to obtain an evenly coloured mix

### APPLICATION

The surfaces must be clean, compact and free of dust and grease. MasterInject 1360 is injected into the cracks with the usual technique for injecting epoxy resin consolidants. Drill holes 10 ÷ 15 cm deep along the crack. The spacing and number of holes will vary depending on the estimated depth of the crack.



#### SPECIFIC DATA

density kg/dm <sup>3</sup>	1,15 + 0,05
pot-life ( quantity 200 gr., temperature 23°C), min	40
Workability time ( quantity 500 gr, temperature 23°C), min	20
Workability time ( quantity 500 gr, temperature 30°C), min	5
Workability time ( quantity 500 gr, temperature 10°C), min	60



The Chemical Company

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When the seals are set (after approx. 24 hours), connect the pump to the lowest tube and begin injecting, gradually increasing the pressure. If resin leaks from the next tube above then the crack being treated has been filled.



At this stage plug the first tube and repeat the procedure upwards until completing the whole job. The pump pressures have to be determined on site since they can vary according to the size or depth of the crack.

Do not apply the product at temperatures below 5°C, since the polymerisation time would be extremely long.



Remove any loose or crumbling parts and blow out any dust with compressed air. Then fit copper tubes, having an 8-mm section, in the holes, seal the cracks and fix the injection tubes with the adhesive MasterInject 1360.



## TOOL CLEANING

Use epoxy thinner (thinner E100) or Nitro.



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For further information, please consult your local BASF Construction Chemicals Italia Spa representative.

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