

RAPI-tec® self/injection

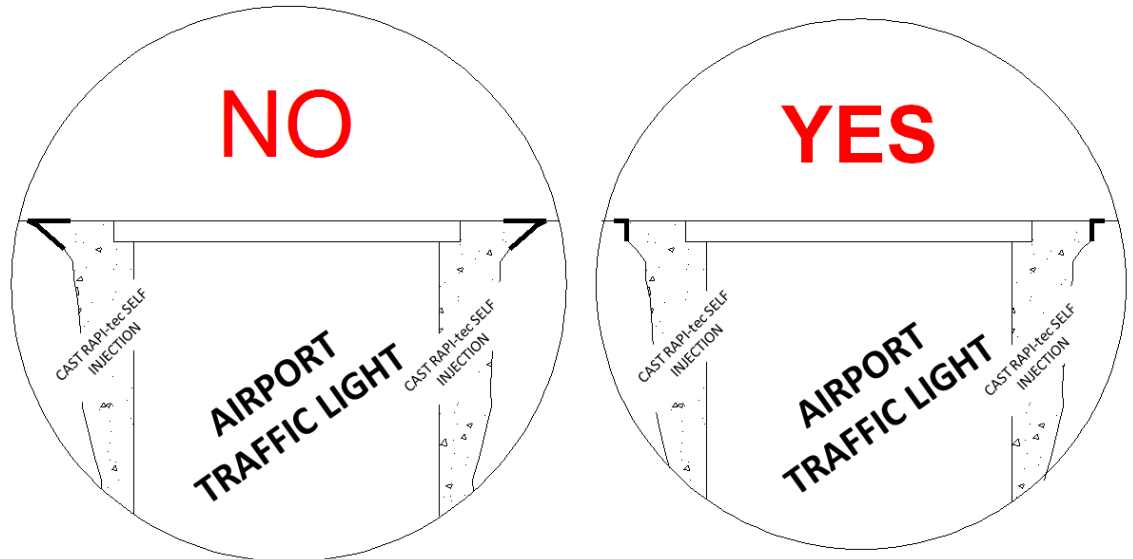
FAST HARDENING CEMENT SLURRY FOR INJECTION OR INTERNAL FIXATION

- Description** RAPI-tec® self/injection is a special cement formulation which, when mixed with water, results in a cement slurry with low viscosity and optimal penetration properties for injections or internal fixation in contact with concrete, stones, bricks, etc.
- Advantages** RAPI-tec® self/injection combines sufficient open time (20-30 min) with fast hardening (30 MPa after 3 hours), optimal penetration in cavities, elevated final mechanical resistances, optimal durability and resistance against sulphates.
- Application** RAPI-tec® self/injection is being used where a fast structural use is needed after application, good volumetric stability, exceptional physical-mechanical properties and durability.
- Method of use** Add the powder (20 kg bags) to the water (6.4 lt) mixing with a suitable mixer or a core drill to obtain a uniform and lump free mix. Inject in or pour on the contact surfaces after saturation with water.

Technical characteristics (typical values)			
• Mixing water			32%
• Wet density			2.004 gr/lt
• Fluidity Marsh (Ø opening = 12 mm / 1 litre)			15÷40 sec.
• Initial spreading			406%
• Spreading after 20 minutes			393%
• End of setting			35 minutes
• Compressive strength after 3 hours			31 MPa
• Flexural strength after 3 hours			6 MPa
• Compressive strength after 24 hours			45 MPa
• Flexural strength after 24 hours			8 MPa
• Compressive strength after 28 days			58 MPa
• Flexural strength after 28 days			13 MPa
• Dynamic elasticity modulus after 28 days			26.500 MPa
• Static elasticity modulus after 28 days .			16.500 MPa
• Adhesion to concrete			> 2 MPa
• Freeze/thaw resistance in presence of chlorides - according to SIA 162 specification of the Swiss Motorway Authorities – after 28 cycles ≤ 600 g/m ² corresponds to excellent frost resistance with salts			≤ 190 gr/m ²
• Free shrinkage/expansion:			
substrate saturated with water, protected	after 24 h		+100 µ/m
	after 90 d		+150 µ/m
(UNI EN 12617-4 / UNI 6687-73)			
• Consumption :			approx 1,4 Kg/lt

The hole must have well-defined edges as shown below.

Prepare holes by coredrill. In case of using demolition hammers or other equipment, provide for the regularization of the cortical part of the hole (depth ≥ 1 cm) with a suitable cutting disk.



Remarks Information according to 2003/53/CE:

Storage: 6 months in original packaging, un-opened, kept in a dry and protected area, at temperature between +5°C and +35°C.

Do not use the content when there are agglomerations in the powder.

Packaging Bags of 20 Kg

Safety indications Read carefully the instructions on the packaging, and eventually demand the relative Material Safety Datasheet of this product.

The above data are based on our actual and most experienced practical and laboratory knowledge and the results are collected from application of the product in different situations. Tecnochem Italiana does not assume any responsibility regarding inadequate or negative performance as a result of improper use of the product or for defects deriving from factors or elements other than the quality of the product including improper storage. The technical characteristics and performance mentioned in this datasheet are updated periodically. The revision dates and number of revision of the datasheets are listed in the table below. Eventual variations are traceable on our website www.tecnochem.it where the most updated datasheets can be retrieved.