



Advanced
Pavement
Systems

From Project to Jobsite



Certified Quality System since **FEBRUARY 1993**

RAPI-tec® ASPHALT GROUT rapido

MICROCONCRETE VERY FAST HARDENING AND VOLUMETRIC STABILITY AS FLUID GROUT WITH SHRINKAGE COMPENSATION, RHEODYNAMIC PROPERTIES, VERY HIGH STRENGTHS AND DURABILITY FOR ASPHALT-CEMENTITIOUS PAVEMENTS

Description **Rapi-tec® ASPHALT GROUT** is a special premixed cement based product that mixed with water forms very liquid slurry with low viscosity, for the saturation of OPEN GRADE asphalt, to be opened to traffic after only a few hours.

Advantages and characteristics **Rapi-tec® ASPHALT GROUT** has sufficient open time of about 20÷30 minutes, very low viscosity, and has very fast hardening (20÷30 Mpa in 3 hours).

Fields of use - Fluid grout for filling of mono-granular OPEN GRADE Asphalt (open porosity 25÷30 %) broken stone (recommended basalt or other granulates specified for drainage asphalt for roads) with particle size approx. from 4 mm to 20÷25 mm, screed thickness from 40÷70 mm: recommended prequalification made from the OPEN GRADE producer/applicator (see also instructions in ASPHALT GROUT MANUAL) in order to obtain semi-flexible asphalt-cementitious pavements, with even no joints, to be used for port areas, containers stacking areas, airports, warehouses, forklifts loading areas, areas with high static, dynamic or mechanical stresses and with heavy traffic.

→ Wherever it is necessary to open to traffic after 2÷4 hours.

Method of use

- Apply the **Rapi-tec® ASPHALT GROUT** on OPEN GRADE ASPHALT that should be guaranteed by its producer, properly laid with vibratory finishing machine and rolled. The ASPHALT GROUT can be poured once the temperature of the OPEN GRADE Asphalt is lower than 30°C.
- Mix with a total 32 % of mixing water depending on the required viscosity.
- Start adding approx. 18 % of water and then pouring gradually the product.
- Add the remaining water and mix strongly for 5-6 minutes; the mixing must be homogeneous, with no lumps.
- Mixing time: 10 minutes
- Saturation time of open grade: 10 minutes
- The product is to be mixed with vertical axes mixer with high efficiency.

NOTE: Our allied applicators with appropriate tools benefit from the guidance and assistance of our office for Engineering and Project Assistance: *from Project to Jobsite.*

Remark Information according to 2003/53/CE:
Storage: The product can be kept for at least 6 months if stored in dry and protected conditions, in the original packaging, between +5°C and + 35°C.

Packaging Bulk, Bag of 25 Kg and Big bag of 1000 Kg.

Consumption of the powder about 5 Kg/m²/cm

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Technical characteristics
(typical values ASPHALT GROUT)

- MARSH FUNNEL viscosity approx. 130 seconds: the acceptable ranges of viscosity have to be established on the particular field of application quality control.

MICROBETON® ASPHALT GROUT		
Mechanical resistance	compr. Str.MPa	Flexural str. MPa
3 hours	30	5
1 day	46	6.4
7 days	52	7.9
28 days	58	11.2
90 days	68	13.2

- The system asphalt/cement OPEN GRADE (asphalt) + **Rapi-tec® ASPHALT GROUT** (cement) will provide typical resistances :

Compressive strength	About 8 MPa
Elasticity modulus	About 7.000 MPa (ASTM D-4123)

Remark Avoid the use of brackish water or salt water.

Safety indications Read carefully the safety indications on the packaging, or consult the relevant Material Safety Data Sheet of this product.

This information is based on our experiences and latest laboratory testing. The above information may be subject to modifications, which will be announced in the updated technical datasheets. Eventual changes to the information on top will be announced on www.tecnochem.it in which the technical datasheets are updated regularly and always the most updated can be found. Tecnochem Italiana cannot held responsible for poor results that are due to causes unconnected to the quality if the product or for defects deriving from factors different than the quality of the product including the wrong storage.

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