RAPI-tec® PAV 2 / RA mono

One-component mortar with fast set and high volumetric stability for the repair of industrial pavements – Foot traffic after 1-2 hours, Full traffic load after 5-6 hours. Also part of the System REBgeo for waterproofing of below ground structures.

CE approved - Certificate n. 1305-CPD-0808 ; EN 1504-3 Classe R4

R4 EN 1504-3 NORMA EUROPEA

Description

RAPI-tec® PAV 2/RA is a cement based mortar, with special additives for the compensation and reduction of hygrometric shrinkage. This fast hardening mortar is formulated to realise pavements, and repair or resurfacing of damaged industrial pavements.

Advantages and characteristics

RAPI-tec® PAV 2/RA unites a sufficient time of workability (approx. 100 minutes at 20°C), with a rapid hardening (10Mpa after 5 hours).
Negligible hygrometric shrinkage, excellent deformability, high flexural strengths. Superior mechanical resistance, excellent durability and resistance to sulphate attack.
Applicable from 6 mm. For thickness higher than 15 mm, is recommended to add the calibrated aggregates. The applied RAPI-tec® PAV 2/RA as resurfacing for pavements can be finished by helicopter very fast.

Use

RAPI-tec® PAV 2/RA is used for the repair or the resurfacing of industrial pavements, internal or external (deposits, warehouses, workshops, parking areas etc) where a fast re-opening for traffic is required after repair.
Can be used on floorslabs to waterproof as first component of the **SYSTEM REBgeo**.

Application

- The substrate needs to be healthy, clean, sound without loose particles or dust free, saturated with water before application. The substrate shall have minimum 1 N/mm² tensile strength and 25 N/mm² compressive strength.
- No presence of oil, greases or detergents.
- Temperature of application: +5°C to +30°C.
- Mix with vertical axes mixer, till a perfect homogeneous paste is obtained. Mixing time: about 5 to 7 minutes.
- Poor the paste over the proper prepared substrate and smoothen with vibrating ruler.
- The surface has to be protected with polyethylene sheet or CURING COMPOUND UR 20 after application with exception when relative humidity is very high and winter temperatures.

Dosage

Water : 10,5 % or 2,625 kg for each 25 kg bag

Packaging

Component A = Bag (powder) 25 kg

Remark

Storage: 6 months in original closed packaging, maintained in close and protected environment, dry, at temperature between + 5°C and + 30°C.

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From Project to Jobsite

Technical characteristics (typical values)	
Maximum grain size	≤ 2 mm
Initial setting time (20°C) DPU	100 minutes
Final set time (20°C)	150 minutes
Density	2,3 Kg/litre
Consumption	2,3 Kg/m^2/mm
Compressive strength	
5 hours	12 MPa
24 hours	22 MPa
7 days	53 MPa
28 days	71 MPa
Flexural strength	
5 hours	3.9 MPa
24 hours	5.1 MPa
7 days	8.9 MPa
28 days	12.2 MPa
Elasticity modulus (28 days)	30 GPa
Fracture energy (28 days)	~ 150 N/m
Water permeability EN 12390-8 5 bar x 3 days	< 3 mm
Resistance to frost/thaw in presence of chlorides according to SIA 162 (Suisse Standard) : after 28 cycles ≤ 600gr/m^2 corresponds to 'optimal resistance'	≤180 gr/m^2
Shrinkage/expansion (free) (T = 20° R.H. = 50%) (UNI EN 12617-4 / UNI 6687-73)	≤-190µ at 90 days
Adhesion to the substrate (EN 1504 – 3)	3 MPa at 28 days (substrate failure)
Impact resistance (CSTB 3232)	No cracks after 25 impacts
Surface hardness (EN 13892-6)	≥ 150 N/mm^2
Shore Hardness (ISO 868)	D ≥ 75
Penetration test (EN 12697-21)	I < 0,1 mm
Wear resistance (to rolling wheel) (XP P 11-101)	$\Delta v_r \leq 2$ cm^3
Resistance to deep abrasion (EN 102)	20 mm^3
Sulphate resistant UNI EN 196/1 and ASTM C 88 (sequence of 15 immersions and curing in a solution of magnesium sulphate)	No damage Loss of weight < 0,20%
Resistance to chemical agents (contact time 24 hours)	No change in the substrate with caustic soda, amines, methanol, trichloroethylene, gasoline, motor oil, brake fluid.

Safety indications Read carefully the instructions on the packaging or eventually ask for the Material Safety Datasheet of the product.

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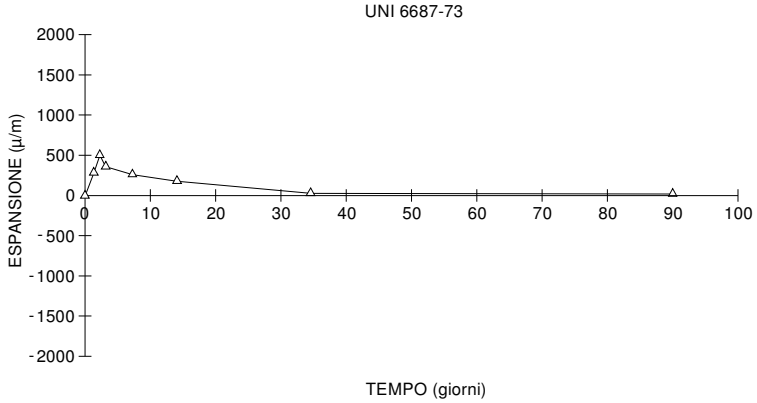
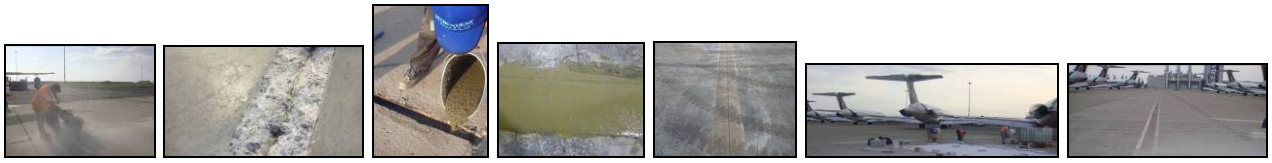
Shrinkage zero

UNI 6687-73

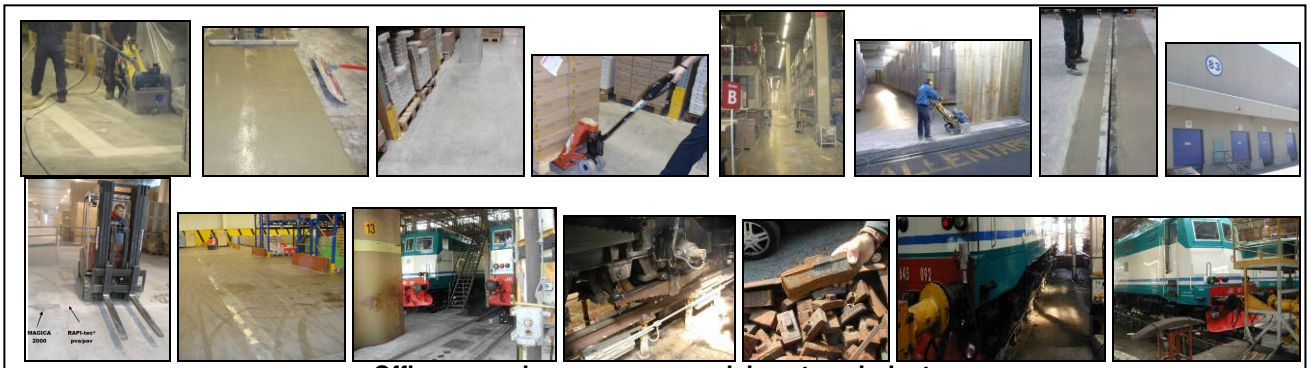


Repairs and restoration of concrete floors with rapid usability: 3-4 hours after application



Pavements and joints in airports

Parking, pavements, floors, roofs,



Offices, warehouses, commercial centres, industry

Floors, multi-storey garages with epoxy TECNOEPO FLOORING SYSTEM 185

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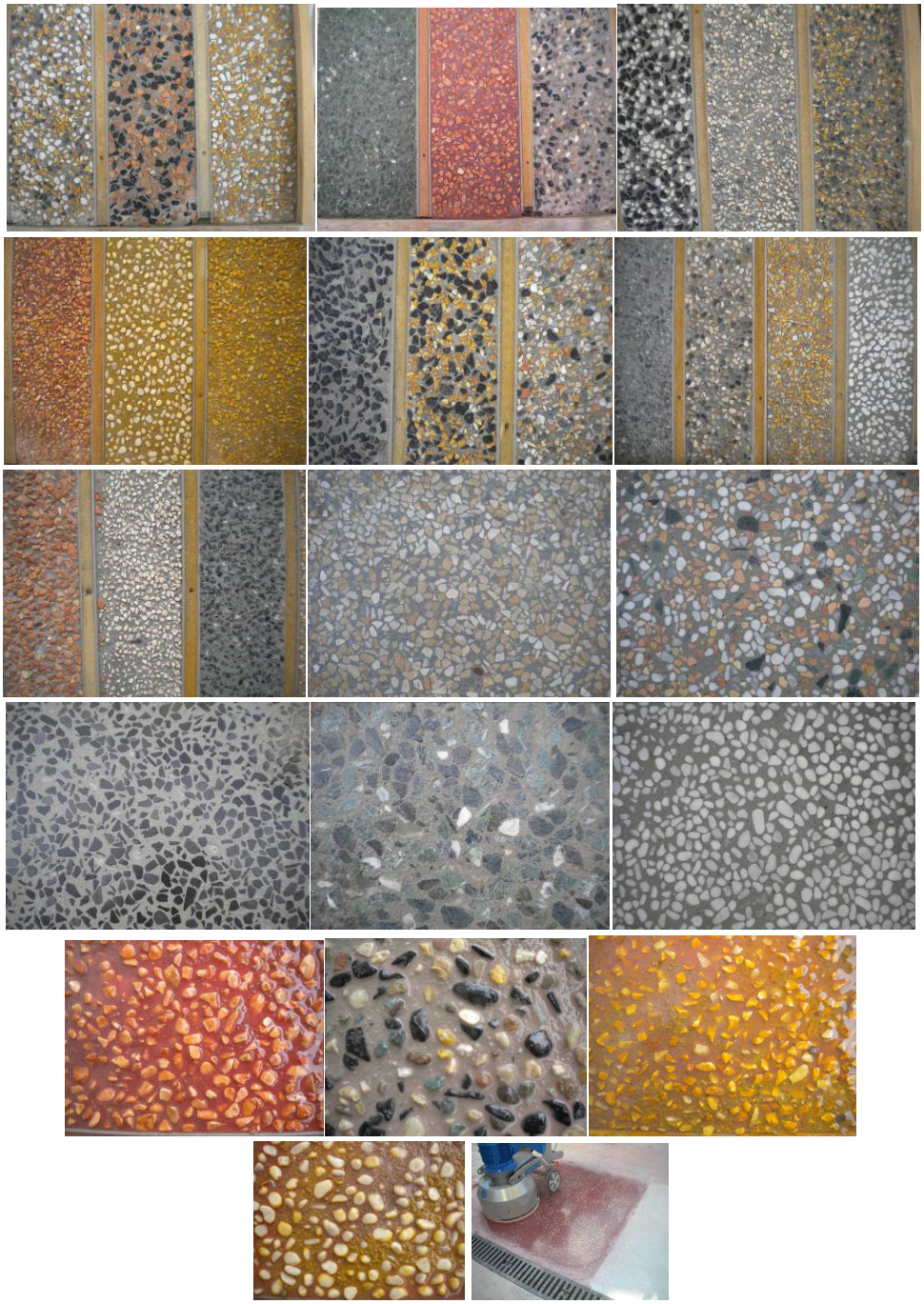
TECNOLOGY RAPI-tec® pva/pav

COLOURED FLOORS WITH GRINDED STONE FINISH, RAPID EXCECUTION AND USABILITY FOR TRAFFIC. WASHED CONCRETE TOPPING.



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