

## HFE-tec® PAV 125/3

CEMENTBASED FORMULATION FOR THE PRODUCTION OF DUCTILE CONCRETE

**CE** approved – Certificate n. 1305 - CPD - 0017  
EN 934-2 T3.1/T3.2

**Description** HFE-tec® PAV 125/3 is a multicomponent formulation (powder, liquid, fibre); aggregates (with defined granulometric curve) and water need to be added as well.

**Advantages and characteristics** A concrete with very high ductility is obtained, as well as high fracture energy and deformation capacity.

**Application field** Wherever the ductility constitutes a guarantee for the structural integrity of buildings: seismic areas, ductile link slabs to eliminate of joints on bridges, structures, high stress, repairs, etc..

**Application** Organise in the concrete batch plant and on the jobsite the correct dosage and mixing of the various components, casting on the jobsite and protection (anti-evaporation) during curing. Our Engineering Office(UAPP) can offer you assistance “from Project to Jobsite”.

**Remarks** **Storage: INFORMATION ACCORDING TO 2003/53/CE:**  
12 months in original packaging, not opened, well kept in dry and protected area, from +5°C to +35°C.  
Do not use opened bags if you notice lumps of the powder. At all times, avoid freezing of the liquid component.

**Packaging** IBC's, bigbags, bags, barrels, jerrycans, depending the jobsite.

### 1000 LITER

PROPORTIONS FOR 1 m<sup>3</sup>

COMPONENT	PACKAGING	DOSAGE IN Kg/m <sup>3</sup>
HFE-tec® PAV 125/3 comp. A powder	To be agreed	464
HFE-tec® PAV 125/3 comp. B liquid	To be agreed	9
FIB-energy® MC 310/15 fibre	To be agreed	12
XARLON® 21 air-entrainer	To be agreed	0,14
Aggregates 0 - 8 mm	To be selected on site	1647
Water (water/powder = 0,33)	On site	about 153

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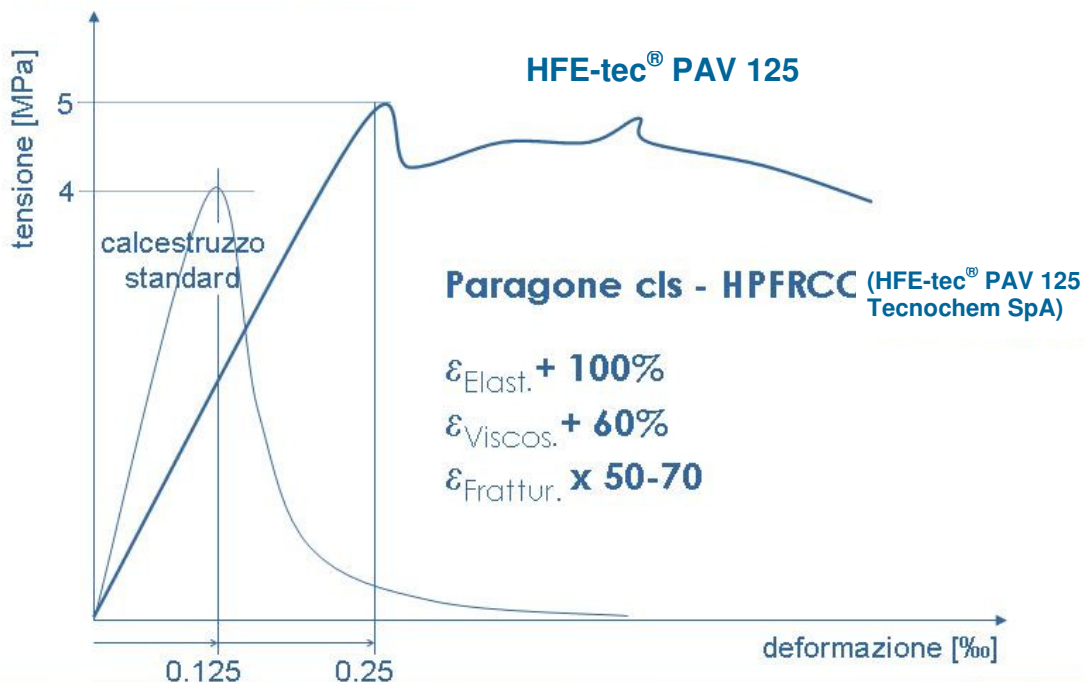
COMPONENT	PACKAGING	DOSAGE IN Kg/m <sup>3</sup>
HFE-tec® PAV 125/3 comp. A POWDER	Bags of 25 Kg. On pallet	100
HFE-tec® PAV 125/3 comp. B liquid	Barrels of 200 Kg.	1,8
FIB-energy® MC 310/15 fibre	Bags of 2,4 Kg.	2,4
XARLON® 21 air entrainer	Cans of 5 Kg.	0,028
Aggregates 0 - 8 mm	To be selected on site	412
Water (water/powder = 0,33)	On site	about 33

**Technical characteristics (typical values)**

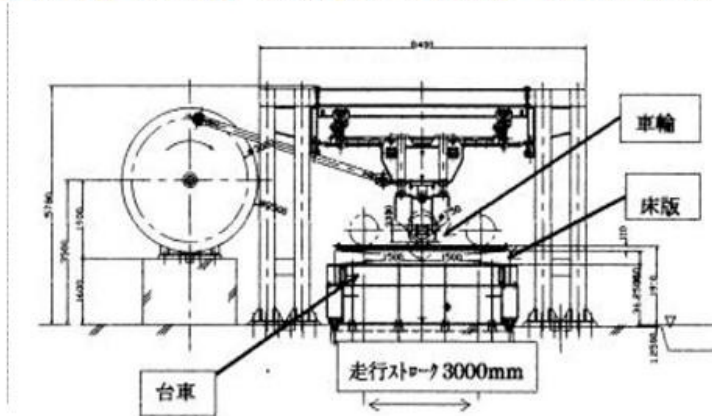
• Rheology:	Rheo-plastic
• Polymeric fibres :	PVA
• Workability:	3.5 h
• Walkability:	from 10h
• Elastic modulus:	< 25 GPa
• Resistance class:	C45/55
• Fracture energy:	ca. 12'500 N/m
• Density:	< 2180 g/l
• Pull out resistance:	25% higher to concrete standard
• Shrinkage:	~ 90 days < 0.4‰
• Elevated durability:	(w/c < 0.33)
• Compression resistance 1 day:	25 MPa
• Compression resistance 28 days:	64 MPa
• Flexion resistance 1 day:	5 MPa
• Flexion resistance 28 days:	12,5 MPa

### 3. Case History 1: getto solette duttili con HFE-tec® pav 125/3

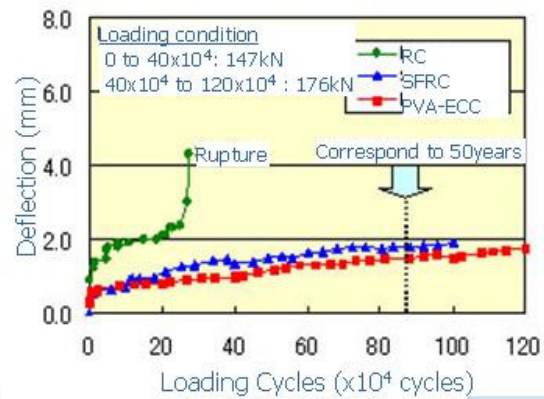
comportamento a trazione



### 3. Case History 1: getto solette dutili con HFE-tec® pav 125/3



Prova a fatica  
(carico ciclico)



**Safety indications** Follow the instructions and precautions as when working with standard cement based products. Read carefully the information of the packaging or consult the relevant Material Safety Datasheet.

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](http://www.tecnochem.it) where the most updated datasheets can be retrieved

Edition: 01/2008  
Date revision: 12/2011

Nr. rev.: 2

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