## ELECTRONIQUE CONTROLE P5G - P6G



The E.C.M. acrylic resins have been developed to ensure the installation of piezoelectric sensors, loops, and roadway state sensors, etc. both in asphalt constructions and in concrete slab roadways.

Through their ease of use and their mechanical properties, these products facilitate installation and ensure a long lifespan.

The table below summarizes the different types of resins available.

Resin reference	Sensor utilization	Type of roadway	Colour of the resin
P5G	<ul> <li>PIEZOLOR,</li> <li>Stainless steel support SUP1 and SUP2 for resistive sensor.</li> </ul>	- Asphalt, - Concrete.	Grey
P6G	<ul><li>Axor k,</li><li>Induction loop.</li></ul>	Asphalt	Grey





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Electronique Contrôle Mesure 4 Rue du Bois Chêne le loup Parc d'Activité de Brabois 54 500 VANDOEUVRE LES NANCY 22(33) 0383442413





Electronic Control Measurement Inc 464 commercial drive BUDA 78610 - TEXAS (512) 2959752, Fax (512) 2959753

## PROPERTIES

RESINE/PROPRIETE	P5G	P6G
Composition of a kit	1 plastibag of resin + 1 catalyst bag	Ditto
Expire date of storage (+5 °C to +30 °C)	1 year	1 year
Packaging resins	6 kg plastibag	6 kg plastibag
Packaging catalyst	150gr bag	150gr bag
Density after mixing	1,79 kg/l	1,78 kg/l
Preparation time	4 mn	4 mn
Duration of use :		See P5G
■ at 5°C	20 mn	
■ at 25°C	10 mn	
■ at 40°C	4 mn (*)	
Drying time :		See P5G
■ at 5°C	40 mn	
■ at 25°C	20 mn	
■ at 40°C	8 mn	
Resistance to abrasion (ASTMC944)	4,20 gr	See P5G
Resistance to compression (ASTM 116-90)	24700 kPa	See P5G
Dynamic properties : Complex module	132 MPa	
at 25°C	27 MPa	
at 50°C	9 MPa	
<ul> <li>Phase angle (radian)</li> </ul>	51110	
at 0°C	0.25	
at 25°C	0.48	
at 50°C	0.63	
Bending strain	17700 kPa	17700 kPa
Variation in size during drying	0%	0%
Coefficient of expansion	1010-6/°C	1010-6/°C
Viscosity	25Pa-s	
Compatibility test with the		
roadway :		
■ asphalt	129 OkPa	
Adhesion resistance to bending		
■ concrete		
	3870 kPa	
Shearing resistance		
asphalte	820 kPa	
■ concrete	760 kPa	
Resistance to traction		
<ul> <li>asphalte</li> </ul>	97 kPa	
■ concrete	214 kPa	

(\*) The use of 50 % catalysing agent lengthens the setting time.