

SIMPLIFIED TEST CERTIFICATE

No. 13/7316-1312-S

Bellaterra, 17th December 2013			Product:		
PARCHEM CONSTRUCTION SUPPLIES PTY LTD 7 LUCCA ROAD WYONG NSW 2259 AUSTRALIA			GUNCRETE E		
PRODUCTS AND SYSTEMS FOR THE PROTECTION AND REPAIR OF CONCRETE STRUCTURES (CC); UNE-EN 1504-3:2006 Table 3: Requests of performances of products for the structural and non-structural reparation.					
Performance test	Result	Requirement			
		Structural		Non-structural	
		Class R4	Class R3	Class R2	Class R1
Mixing water	10,0%	--	--	--	--
1- Determination of compressive strength, UNE-EN 12190:1999	84,0 N/mm²	≥45 MPa	≥25 MPa	≥15 MPa	≥10 MPa
2- Chloride ion content, UNE-EN 1015-17:2000	0,003%	≤0,05 %		≤0,05 %	
3- Measurement of bond strength by pull-off, UNE-EN 1542:1999	3,2 MPa	≥2,0 MPa	≥1,5 MPa	≥0,8 MPa	
4- Determination of retraction and expansion, UNE-EN 12617-4:2002, Method controlled movements	Shrinkage: 2,7 MPa Expansion: 2,8 MPa	≥2,0 MPa	≥1,5 MPa	≥0,8 MPa	No requirement
5- Determination of resistance to carbonation, UNE-EN 13295:2005	Dk ≤ reference concrete MC(0,45)	Dk ≤ reference concrete tipo MC(0,45)		No requirement	
6- Determination of the module of elasticity in compression, UNE-EN 13412:2008	52,8 GPa	≥20 GPa	≥15 GPa	No requirement	
7- Determination of resistance of capillary absorption, UNE-EN 13057:2002	0,1 kg/(m² x h^{0,5})	≤0,5 kg/(m ² •h ^{0,5})		≤0,5 kg/(m ² •h ^{0,5})	No requirement
8- Determination of the coefficient of thermal expansion, UNE-EN 1770:1990	16,3x10⁻⁶ /°C	Declared value			

Responsible for Construction Materials
LGAI Technological Center, S.A.

Technician responsible
LGAI Technological Center, S.A.