

Test report n. **21RP00814** of **25/05/2021**

Client: **ECOBETON ITALY SRL - VIA G. GALILEI N.47 - 36030 COSTABISSARA (VI)**

**Sampling data**

Sampled by:	Client
Sampling place:	Factory in Costabissara (VI)
Sampling date:	30/03/2021
Transport performed by:	Client
Delivery date:	30/03/2021
Registration date:	01/04/2021
Date of tests:	from 12/04/2021 to 14/05/2021

Sample	Mark	Sample description
21DM07063	CRONO #	Fast setting fiber-reinforced repair mortar #

**UNI EN 13687-1:2003**      **Products and systems for the protection and repair of concrete structures**  
**Test methods - Determination of thermal compatibility - Freeze-thaw cycles with immersion in de-icing salts**

Specimen n.	Thermal cycles to which the specimen was subjected	Test area	Breaking load	Strength of adhesion
		A	F <sub>u</sub>	f <sub>u</sub>
		[mm <sup>2</sup> ]	[N]	[N/mm <sup>2</sup> ]
01	0	2289	3279	1.43
02		2289	2949	1.29
03		2289	3857	1.68
04		2289	3361	1.47
05		2289	4186	1.83
Average value				1.54

Specimen n.	Thermal cycles to which the specimen was subjected	Test area	Breaking load	Strength of adhesion
		A	F <sub>u</sub>	f <sub>u</sub>
		[mm <sup>2</sup> ]	[N]	[N/mm <sup>2</sup> ]
01	50	2289	4606	2.01
02		2289	5438	2.38
03		2289	4399	1.92
04		2289	4610	2.01
05		2289	4299	1.88
Average value				2.04

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**UNI EN 1015-17:2008**

**Test methods for masonry mortars  
Determination of the water-soluble chloride content of fresh mortars**

Specimen n.	Soluble chloride
[-]	[%]
01	< 0.01

**UNI EN 13412:2007**

**Products and systems for the protection and repair of concrete structures  
Test methods - Determination of the elastic modulus in compression**

Specimen n.	Elastic modulus
[-]	[GPa]
01	22.4
02	22.2
03	21.5
<b>Average value</b>	<b>22.0</b>

Il direttore  
Ing. Manuel Cazzola

*This test report refers only to the samples tested and cannot be partially reproduced without the written approval of the laboratory*

>> extended uncertainty U coverage factor K = 2 (95% confidence level) unless otherwise indicated - § test performed in an external laboratory qualified according to PG010 - N.A. Not applicable  
The samples are stored in the laboratory 30 days after the test report is issued (with the exception of available products which are eliminated at the end of the analysis or at expiration). For storage longer than a month, a specific request must be made.  
- the laboratory keeps a copy of the test reports for a period of 4 years and a copy of the records relating to the analyzes for 4 years, except for special requests from the customer; all documents relating to product approval tests are kept for 10 years.  
Unless otherwise specified, any conformity / non-conformity judgments reported refer to the analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of the measurement.  
# information provided by the customer. If both the description of the sample and the sampling are attributable to the customer, all other data associated with the sampling are also provided by the customer. If the sampling is not carried out by the laboratory, the results obtained are considered to refer to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer..

End of the test report 21RP00814