



DECLARATION OF PERFORMANCE (DoP)

FIBRE-REINFORCED CEMENT-LIME MORTAR									
1.Single identification code of the product-type:	Note - the "lot" is identified by the date listed on the PACKAGE and/or delivery note.This DoP is valid for the lots realised from the issue date of this DoP until the following one (downloadable from the website).								
2.Intended uses:	Pre-dosed guaranteed performance mortar for structural masonries (G-type) or plaster (GP-type), both for indoor and outdoor applications.								
3.Manufacturer:	GRAS CALCE srl Tel +39 02 90964141 Fax +39 02 90962801 Via A. Grandi 5 - 20056 Trezzo sull'Adda (MI), Italy www.grascalce.it info@grascalce.it								
4.Agent:	not applied (DoP and technical documentation are kept by the manufacturer).								
5. A.V.C.P systems: (Assessment and Verification of Constasy of Performance)	<table border="1"> <tr> <td>use: plaster (GP type mortar)</td> <td>use: masonry (G-type mortar)</td> </tr> <tr> <td>System 4</td> <td>System 2+</td> </tr> <tr> <td>UNI EN 998-1:2010</td> <td>UNI EN 998-2:2010</td> </tr> <tr> <td>not provided by the standard</td> <td>TECNOPIEMONTE (no.1372-CPR-1986)</td> </tr> </table>	use: plaster (GP type mortar)	use: masonry (G-type mortar)	System 4	System 2+	UNI EN 998-1:2010	UNI EN 998-2:2010	not provided by the standard	TECNOPIEMONTE (no.1372-CPR-1986)
use: plaster (GP type mortar)	use: masonry (G-type mortar)								
System 4	System 2+								
UNI EN 998-1:2010	UNI EN 998-2:2010								
not provided by the standard	TECNOPIEMONTE (no.1372-CPR-1986)								
6a. Harmonised Standards:									
Control notified bodies:									
6b. European Technical Assessment:	not applicable(for these products there are "harmonised technical standards").								

7.Declared performance:			GP-type mortar	G-type mortar	Performance			
Essential characteristics			EN 998-1 plaster	EN 998-2 masonry	Cat.	EN 998-1 plaster	EN 998-2 masonry	notes
Compressive resistance		Lab. EN 1015-11	---	5.4.1	M	---	M 5	≥ 5 N/sq.mm
			prospect 1 and 2, line L2	---	CS	CS IV	---	≥ 6 N/sq.mm
% of Ca(OH) ₂ on total binding agent			prospect 2, note (a)	5.4.1	---	NPD		---
Adhesion	cut resistance	Tab. value	---	5.4.2.b, app. C	---	---	0.15	N/sq.mm
	plaster/support	Lab.EN 1015-12	prospect 2, line L3	---	---	0.34	---	N/sq.mm
	failure mode			---	FP	A	---	---
Chloride content (for reinforced masonries)			---	5.2.2	---	---	% Cl ≤ 0.1%	---
Reaction to fire			5.2.2	5.6	---	Class A1		---
Density (hardened)		Lab.EN 1015-10	prospect 2, line L1	5.4.5	---	1800 kg/cu.m		±10%
For outdoor use	Durability (EN 998-1: tests for OC mortars, only)		5.2.3.1 and prospect 2	5.4.7	---	NPD		---
	Water absorption kg/(sq.m.min ^{0.5})	Lab.EN 1015-18	---	5.4.3	---	---	0.66	---
			prospect 1 and 2, line L5	---	W	W0	---	that is > 0.4
Water vapour permeability (→mass)	Lab.EN 1015-19	prospect 2, line L8	---	---	---	μ = 18	---	---
	Values taken from prospect A.12 of EN 1745:2002	---	---	5.4.4	---	---	μ = 15/35	---
Thermal conductivity (→mass)		prospect A.12 of EN 1745:2002	prospect 2, L9 (P=50%)	5.4.6 (P=50%)	---	λ_{10 dry (P=50%)=0.83 W/mK}		Average value
Hazardous substances			ZA.1	ZA.1	---	See Safety sheet		---

NPD = no performance determined (the characteristic is not subject to prescription requirements for the foreseen intended use)

Irrelevant performance: Proportion of components (Prescribed composition mortars), Water permeability and Adhesion after atmospheric agents exposure cycles. (OC mortars), Thermal Conductivity with lab. tests (T mortars), Water penetration after capillarity (R mortars).

8.Appropriate and/or specific technical documentation:"simplified procedures" do not apply (art. 36, 37 and 38, CPR 3052011).	
The performance of the product identified above is complying with the declared performance.This responsibility declaration is issued, in compliance with regulation (EU) no. 305/2011, under the sole responsibility of the manufacturer identified above.Signed for and on behalf of the manufacturer by:Giuseppe Cereda (legal representative)	
Place and issue date:	Trezzo sull'Adda (MI), Italy, on date 01/11/2016



Gras Calce S.r.l. - Via A. Grandi, 5 – 20056 Trezzo s/A (MI), Italy

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EN 998-1:2010

Pre-dosed guaranteed performance mortar for structural masonries (G-type) or plaster (GP-type), both for indoor and outdoor applications.

Compressive resistance	Category CSIV
Adhesion	0.34N/sq.mm
Breakage type	FP A
Reaction to fire	Class A1
durability	NPD
Water absorption	W0
Water vapour permeability	18 μ
Thermal conductivity	Λ 0.83 W/mK
Hazardous substances:	See Safety sheet



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1372-CPR-1986

EN 998-2:2010

Pre-dosed guaranteed performance mortar for structural masonries (G-type) or plaster (GP-type), both for indoor and outdoor applications.

Compressive resistance	Class M5
Initial shear strength (Table value)	0.15N/sq.mm
Chloride content	\leq 0.1% Cl
Reaction to fire	Class A1
durability	NPD
Water absorption	0.66 kg (sq.mm min 0.5)
Water vapour permeability	15/35 μ
Thermal conductivity	Λ 0.83 W/mK
Hazardous substances:	See Safety sheet

DOP NO: 200 N-201611