DECLARATION OF PERFORMANCE

In accordance with the European Construction Products Regulation nº 305/2011

Nº AM003-220802

CE

EN 13139:2002

1. PRODUCT

MARBLE CRUSHED

MICROMAR® 250
MICROMAR® 500
MICROMAR® 800
GRANOMAR® 1.1
GRANOMAR® 1.2
GRANOMAR® 0/2
GRANOMAR® 2.5
GRANOMAR® 3
GRANOMAR® 350/3
0/2

2. MANUFACTURER'S NAME AND ADDRESS

AYMAR S.A.U.
Carretera C-35 KM.58,
8470 SANT CELONI (BARCELONA)

3. INTENDED USE

- **Aggregates for MORTARS, EN 13139:2002**.
  Use in mortars for masonry, for pavements/roots, interior wall coverings, exterior wall removal, pastes, for buildings, roads and civil engineering work.

4. SYSTEM FOR EVALUATING AND VERIFYING THE CONSTANCY OF BENEFITS

System 2+

5. NOTIFIED ORGANISM

AENOR, nº 0099/CPR/A60/0871
Evaluation of Factory Production Control
System 2+
Factory Production Control Certificate, from the date of award: 14/10/2010

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www.aymarsa.es

6. DECLARED BENEFITS

ESSENTIAL FEATURES	THECNICAL SPECIFICATION	U.	PERFORMANCES									
			MICROMAR® 250	MICROMAR® 500	MICROMAR® 800	GRANOMAR® 1.1	GRANOMAR® 1.2	GRANOMAR® 0/2	GRANOMAR® 2.5	GRANOMAR® 3	MICROMAR® 350/3	0/2
Aggregate size	EN 13139:2002		0/1	0/1	0/1	0/2	0/1	0/2	0/4	0/4	0/4	0/2
Particle size distribution	EN 12620:2002	Category	-	-	-	-	-	-	-	-	-	-
Granulometry	EN 933-1		See table below (▪ Granulometries)									
Particle density	EN 1097-6	Mg/m^3	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8
Content in fines	EN 933-10	Category	$5–f_{60}$	$4–f_{44}$	$4–f_{26}$	$2–f_{10}$	$2–f_{10}$	$4–f_{22}$	$1–f_3$	$1–f_3$	$3–f_{10}$	$4–f_{22}$
Quality of the fines. Sand equivalent (SE)	EN 933-8	SE	>90	>90	>90	>90	>90	>90	>90	>90	>90	>75
Quality of the fines. Methylene Blue (MB)	EN 933-9	MB (g Blue /Kg)	1,33	1,33	1,33	1,33	1,33	1,33	1,33	1,33	1,33	0,2
Chloride content	EN 1744-1/7	% Cl	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01
Sulphate content	EN 1744-1/12	AS Category	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$
Sulfur compound content	EN 1744-1/11	% S	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1
Light organic pollutants	EN 1744-1/14.2	% m_{1pc}	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Determination of Humus (Sodium Hydroxide) content	EN 1744-1/15.1	Color Regarding Solution Pattern	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear
Variation of mortar setting time	EN 1744-1/15.3	min	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20
Variation of the compressive strength of mortar	EN 1744-1/15.3	%	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	-9
Solubility in water	EN 1744-1/16	WS	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25
Water Absorption	EN 1097-6	WA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Resistance to freezing and thawing	--		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Alkali-silica reactivity	--		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Loss due to calcination	EN 1744-1/17	%	40	40	40	40	40	40	40	40	40	40

▪ Granulometries

PRODUCTO	ABERTURA TAMICES – % PASANTE															
	20	16	11,2	10	8	6,3	4	3,15	2,5	2	1,6	1	0,85	0,63	0,25	0,063
Micromar® 250												100	-	95-99	85-95	50-60
Micromar® 500												100	99-100	95-99	65-85	34-44
Micromar® 800												100	99-100	90-99	48-68	16-26
Granomar® 1,1										100	99-100	30-70	-	0-30	0-10	0-5
Granomar® 1,2										100	80-99	30-70	-	0-40	0-15	0-5
Granomar® 0/2									100	90-100	-	40-80	-	-	10-60	8-18
Granomar® 2,5								100	80-95	35-60	5-35	0-15	-	0-10	0-5	0-2
Granomar® 3							100	-	-	10/45	-	0-5	-	-	0-5	0-2
Granomar® 350/3							100	-	-	35-85	-	5-45	-	-	0-20	0-6
0/2								100	95-100	90-99	-	55-95	-	-	10-60	8-18

The performance of the product identified in point 1 is in accordance with the performance declared in point 6. This declaration of performance is issued under the sole responsibility of the manufacturer referred to in point 2.

Luís Jesús Garcia-Muñoz Miras

Responsible for the Integrated Management System
Quality, Occupational Safety, Environment, Sustainable Mining

Sant Celoni, August 02, 2022

AENOR GESTIÓN MINERA SOSTENIBLE UNE 22480 SGM-001/2009
AENOR GESTIÓN DE LA CALIDAD ISO 9001 ER-1277/2010
AENOR SEGURIDAD Y SALUD EN EL TRABAJO ISO 45001 SST-006/2018
AENOR GESTIÓN AMBIENTAL ISO 14001 GA-2010/0955 Mina "XAUXA"
EMAS Gestión ambiental verificada

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DECLARATION OF PERFORMANCE

In accordance with the European Construction Products Regulation nº 305/2011

Nº AH006-220802

CE

EN 12620:2008+A1:2008

1. PRODUCT

MARBLE CRUSHED

MICROMAR® 250
MICROMAR® 500
MICROMAR® 800
GRANOMAR® 1.1
GRANOMAR® 1.2
GRANOMAR® 0/2
GRANOMAR® 2.5
GRANOMAR® 3
GRANOMAR® 350/3
0/2
0/4
0/8
4/12

2. MANUFACTURER'S NAME AND ADDRESS

AYMAR S.A.U.
Carretera C-35 KM.58,
8470 SANT CELONI (BARCELONA)

3. INTENDED USE

- **Aggregates for CONCRETE, EN 12620:2002+A1:2008.**
  Use in precast concrete products, structural concrete and concrete pavements

4. SYSTEM FOR EVALUATING AND VERIFYING THE CONSTANCY OF BENEFITS

2+ System

5. NOTIFIED ORGANISM

AENOR, nº 0099/CPR/A60/0871
Factory Production Control Evaluation
System 2+
Factory Production Control Certificate, date of grant: 10/14/2010

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6. DECLARED ERORMANCES

ESSENTIAL FEATURES	TECHNICAL SPECIFICATIONS	U.	PERFORMANCES												
			MICROMAR® 250	MICROMAR® 500	MICROMAR® 800	GRANOMAR® 1.1	GRANOMAR® 1.2	GRANOMAR® 0/2	GRANOMAR® 2.5	GRANOMAR® 3	MICROMAR® 350/3	0/2	0/4	0/8	4/12
			Use in precast concrete products										Use in precast products, in structural concrete and pavements concrete		
Aggregate size	EN 13139		0/1	0/1	0/1	0/2	0/1	0/2	0/4	0/4	0/4	0/2	0/4	0/8	4/12
Granulometry	EN 933-1		See table below (▪ Granulometries)												
Particle size distribution	EN 12620	Category	-	-	-	-	-	-	-	-	-	-	G_F85	$G_{NG}90$	$G_C90/15$ G_T15
Particle shape - Index of Lajas	EN 933-3	FI Categ.	-	-	-	-	-	-	-	-	-	-	-	FI_{15}	FI_{15}
Resistance to fragmentation - Los Angeles coefficient	EN 1097-2	LA Categ.	-	-	-	-	-	-	-	-	-	-	-	LA_{30}	LA_{30}
Wear resistance - Micro-Deval Coefficient	EN 1097-8	M_{DE} Categ.	-	-	-	-	-	-	-	-	-	-	-	NPD	NPD
Polishing Resistance - Accelerated Jumping Coefficient	EN 1097-8	CPA Categ.	-	-	-	-	-	-	-	-	-	-	-	CPA_{44}	CPA_{44}
Particle density	EN 1097-6	Mg/m^3	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8
Content in fines	EN 933-10	Category	$5–f_{60}$	$4–f_{44}$	$4–f_{26}$	$2–f_{10}$	$2–f_{10}$	$4–f_{22}$	$1–f_3$	$1–f_3$	$3–f_{10}$	$4–f_{22}$	f_{10}	f_{10}	$f_{1,5}$
Quality of the fines. - Sand equivalent (SE)	EN 933-8	SE	>90	>90	>90	>90	>90	>90	>90	>90	>90	>75	>75	-	-
Quality of the fines. - Methylene Blue (MB)	EN 933-9	MB (g Blue /Kg)	1,33	1,33	1,33	1,33	1,33	1,33	1,33	1,33	1,33	1,33	1,33	-	-
Chloride content	EN 1744-1/7	% Cl	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01
Sulphate content	EN 1744-1/12	AS Category	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$	$AS_{0,2}$
Sulfur compound content	EN 1744-1/11	% S	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1	<0,1
Compounds that affect the surface condition of concretes - Light organic contaminants	EN 1744-1/14.2	EN 12620:2008+A1:2008 % m_{1pc}	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Determination of Humus (Sodium Hydroxide) content	EN 1744-1/15.1	Color Regarding Solution Pattern	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear	More Clear
Variation of mortar setting time	EN 1744-1/15.3	min	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20	+ 20
Variation of the compressive strength of mortar	EN 1744-1/15.3	%	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3	- 9,3
Solubility in water	EN 1744-1/16	WS	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25	<0,25
Water Absorption	EN 1097-6	WA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Resistance to freezing and thawing	--		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Alkali-silica reactivity	--		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Loss due to calcination	EN 1744-1/17	%	40	40	40	40	40	40	40	40	40	40	40	40	40

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- **Granulometries**

PRODUCT	APERTURE													
	16	12,5	8	6,3	4	3,15	2,5	2	1,6	1	0,85	0,63	0,25	0,063
Micromar® 250										100	-	95-99	85-95	50-60
Micromar® 500										100	99-100	95-99	65-85	34-44
Micromar® 800										100	99-100	90-99	48-68	16-26
Granomar® 1,1								100	99-100	30-65	-	0-30	0-10	0-5
Granomar® 1,2								100	80-99	30-70	-	0-40	0-15	0-5
Granomar® 0/2							100	90-100	-	40-80	-	-	10-60	8-18
Granomar® 2,5						100	90-99	35-60	5-35	0-15	-	0-10	0-5	0-2
Granomar® 3					100	-	-	10/45	-	0-5	-	-	0-5	0-2
Granomar® 350/3					100	-	-	35-85	-	5-45	-	-	0-20	0-6
0/2						100	95-100	90-99	-	55-95	-	-	10-60	8-18
0/4		-	100	100	85-95	-	-	35-70	-	20-50	-	-	10-40	3-9
0/8	-	100	90-99,9	-	70-90	-	-	50-70	-	30-50	-	-	10-30	1-5
4/12	100	90-99,9	25-55	-	0-15	-	-	0-5	-	-	-	-	-	0-1,5

The performance of the product identified in point 1 is in accordance with the performance declared in point 6. This declaration of performance is issued under the sole responsibility of the manufacturer referred to in point 2.

Luís Jesús Garciamuñoz Miras

Responsible for the Integrated Management System
Quality, Occupational Safety, Environment, Sustainable Mining

Sant Celoni, August 02, 2022

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