

MISCELE 20x20 mm

1	DESCRIPTION
	<p>Glass mosaic composed of randomly arranged square tesserae of different colours. The square, bevelled, 20x20 mm tesserae are mounted on paper or mesh.</p> <p>With regard to the technical specifications (point 4), please refer to the data on individual components.</p>

2	APPLICATIONS	
A	INTERIOR WALLS	Walls and ceilings in general, of any shape and size, for residential and public buildings
B	INTERIOR FLOORING	Light traffic (private residential rooms)
C.1	<ul style="list-style-type: none"> - EXTERNAL WALLS - SWIMMING POOLS - HIGH-HUMIDITY AREAS (Turkish bath, bio sauna, etc.) 	For the uses indicated, we strongly recommend mosaic tiles mounted <u>on paper</u> .

Blends with GLOSS / GLOW

C.2	<ul style="list-style-type: none"> - EXTERIOR WALLS - SWIMMING POOLS - HIGH-HUMIDITY AREAS (Turkish bath, bio sauna, etc.) 	<p>Gloss has good resistance to hydrolytic and alkali attacks; therefore, it is suitable for swimming pool tiling.</p> <p>For the uses indicated, we strongly recommend mosaic tiles mounted <u>on paper</u>.</p> <p>Not suitable for tiling thermal pools in general, especially those with sulphur waters.</p>
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Blends with ORO BIS

C.3	<ul style="list-style-type: none"> - EXTERIOR WALLS - SWIMMING POOLS - HIGH-HUMIDITY AREAS (shower, Turkish bath, bio sauna, etc.) 	<ul style="list-style-type: none"> - Oro Bis giallo (yellow gold): suitable for the specified applications (ref. ANSI A 137.2-2012: Resistance to thermal shock) - Oro Bis bianco (white gold): we recommend replacing it with Platino mosaic, which provides a full guarantee against the risks of oxidation
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3	WEIGHTS AND MEASUREMENTS	
	Size	20x20 mm
	Mounting	paper or mesh
	Sheet dimensions	322x322 mm
	Number of tiles/sheet	225
	Thickness	4 mm
	Joint	~1.57 mm
	Weight	7 kg/sqm
	Quantity/carton	2.07 sqm ⁽¹⁾
	Sheets/carton	20 ⁽¹⁾

⁽¹⁾ Blends with gold are supplied in cartons of 10 sheets (1.03 sqm)

4.a TECHNICAL CHARACTERISTICS - VETRICOLOR				
	Description	Test	Established limits	Result
VTC + VTC MATT	Water absorption	ISO 10545 - 3	$E \leq 0.5\%$	< 0.5
	Resistance to thermal shock	ISO 10545 - 9	15°-145°C	resistant
	Resistance to chemical attack	ISO 10545 -13		resistant
	Frost resistance	ISO 10545 - 12		resistant
	Colour resistance to fading	DIN 51094		resistant
	Stain resistance	ISO 10545 - 14		resistant
	Resistance to thermal shock	ANSI A 137.2-2012	+15/+71°C	resistant
	VTC	Slip resistance	DIN 51097	A(12°-18°) B(18°-24°) C(+24°)
DIN 51130			R9 - R13	R9
VTC MATT	Slip resistance	BS 7976	>36 (low)	Wet 41-40
		DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A+B+C (31°)
		D.M. 14/06/1989 n.236 part. 8.2.2		compliant
		B.C.R Rep. CEC. 6/81	$0.40 \leq \mu < 0.74$ ≥ 0.74	0.59
		DIN 51130	R9 - R13	R11
		ENV 12633:2006	Class 0-3 (3 Rd≥45)	Class 3 (46)

4.b TECHNICAL CHARACTERISTICS - LE GEMME				
	Description	Test	Established limits	Result
GM + GM MATT	Water absorption	ISO 10545 - 3	$E \leq 0.5\%$	< 0.5
	Resistance to chemical attack	ISO 10545 - 13		resistant
	Frost resistance	ISO 10545 - 12		resistant
	Colour resistance to fading	DIN 51094		resistant
	Resistance to thermal shock	ANSI A 137.2-2012	+15/+71°C	resistant
	GM	Slip resistance	DIN 51097	A(12°-18°) B(18°-24°) C(+24°)
DIN 51130			R9 - R13	R9
GM MATT	Slip resistance	ENV 12633:2006	Class 0-3 (3 Rd≥45)	Class 1 (33)
		BS 7976	>36 (low)	25-23 (wet)
		DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A+B+C
		DIN 51130	R9 - R13	R11

NB: the MATT version tiles in the LE GEMME collection do not have the same shiny appearance as those in the standard version.

4.c CARATTERISTICHE TECNICHE - GLOSS / GLOW				
	Description	Test	Established limits	Result
	Water absorption	ISO 10545 - 3	$E \leq 0.5\%$	< 0.5
	Resistance to chemical attack	ISO 10545 -13		resistant
	Frost resistance	ISO 10545 - 12		resistant
	Colour resistance to fading	DIN 51094		resistant
	Resistance to thermal shock	ANSI A 137.2-2012	+15/+71°C	resistant
	Slip resistance	DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A

4.d TECHNICAL CHARACTERISTICS - SMALTO				
	Description	Test	Established limits	Result
SM + SM MATT	Water absorption	ISO 10545 - 3	$< 0.5 E \leq 0.5\%$	< 0.5
	Resistance to thermal shock	ISO 10545 - 9		resistant
	Resistance to chemical attack	ISO 10545 - 13		resistant
	Frost resistance	ISO 10545 - 12		resistant
	Colour resistance to fading	DIN 51094		resistant
	Resistance to thermal shock	ANSI A 137.2-2012		+15/+71°C
SM	Slip resistance	DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A+B (18°)
		DIN 51130	R9 - R13	R9
SM MATT	Slip resistance	DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A+B (21°)
		DIN 51130	R9 - R13	R10
		ENV 12633:2006	Class 0-3 (3 Rd≥45)	Class 2 (41)
		BS 7976	>36 (low)	50-53 (wet)

NB: the MATT version tiles in the SMALTO collection do not have the same shiny appearance as those in the standard version.

4.e CARATTERISTICHE TECNICHE - CANVAS					
	Description	Test	Established limits	Result	
CANVAS	Water absorption	ISO 10545 - 3	$E \leq 0.5\%$	0	
	Resistance to chemical attack	ISO 10545 -13		resistant	
	Frost resistance	ISO 10545 - 12		resistant	
	Colour resistance to fading	DIN 51094		resistant	
	Stain resistance	ISO 10545 - 14		resistant	
	Resistance to thermal shock	ANSI A 137.2-2012		+15/+71°C	resistant
	Slip resistance	DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A	
CANVAS MATT*	Resistance to chemical attack	ISO 10545 -13		resistant	
	Frost resistance	ISO 10545 - 12		resistant	
	Stain resistance	ISO 10545 - 14		resistant	
	Water absorption	ISO 10545 - 3	$E \leq 0.5\%$	0	
	Slip resistance	DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A+B	
DIN 51130		R9 - R13	R10		

*Not suitable for swimming pools or in areas subject to high thermal shock

4.f CARATTERISTICHE TECNICHE - FLOW				
	Description	Test	Established limits	Result
FLOW + FLOW MATT	Water absorption	ISO 10545 - 3	< 0.5%	< 0.5
	Stain resistance	ISO 10545 - 14		resistant
	Resistance to thermal shock	ISO 10545 - 9		resistant
	Resistance to chemical attack	ISO 10545 - 13		resistant
	Frost resistance	ISO 10545 - 12		resistant
	Colour resistance to fading	DIN 51094		resistant
	Resistance to thermal shock	ANSI A 137.2-2012	+15/+71°C	resistant
FLOW	Slip resistance	DIN 51130	R9 - R13	R10
		DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A
		ENV 12633:2006	Class 0-3 (Rd≥45)	Class 1 (22)
FLOW MATT	Slip resistance	DIN 51130	R9 - R13	R11
		DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A+B+C
		ENV 12633:2006	Class 0-3 (Rd≥45)	Class 3 (52)

4.g TECHNICAL CHARACTERISTICS - ORO BIS				
	Description	Test	Established limits	Result
	Resistance to chemical attack	ISO 10545 - 13	-	Resistant
	Stain resistance	ISO 10545 - 14	-	Resistant
	Resistance to thermal shock	ANSI A 137.2-2012	15°-71°C	Resistant
	Wear resistance (PEI)	ISO 10545 - 7	Class 0 - 5	Class 3*
	Colour resistance to fading	DIN 51094	-	Resistant
	Water absorption	ISO 10545 - 3	E ≤ 0.5%	< 0.5
	Frost resistance	ISO 10545 - 12		Resistant
	Scratch hardness	BS 6431 part. 13	Class 1 - 10	Class 5*

* Floor version

5 STRENGTHS	
	<ul style="list-style-type: none"> - easy to clean surface - lightweight and thin, ideal for renovation projects - colour brightness - pleasant to the touch - reduced size makes it suitable for tiling curved surfaces <ul style="list-style-type: none"> - 20x20 mm tiles mounted on paper: convex surfaces, 30 mm radius - concave surfaces, 40 mm radius - 20x20 mm tiles mounted on mesh: convex surfaces, 60 mm radius - concave surfaces, 50 mm radius

6	INSTALLATION
A	<p>For proper installation, the substrate must be a perfectly smooth, even, white surface, and must be cured, dry, sound and stable.</p> <ul style="list-style-type: none"> - Interior screed or plaster: we recommend Bisazza Ad Hoc+Ultra* adhesive - Other types of substrates: we recommend Bisazza eGlue adhesive - For the SHIFT version, we recommend using profiles in the corners and on wall ends - Regarding paper-mounted mosaic, thoroughly remove any traces of adhesive before grouting - When laying, use a 3.5 mm toothed trowel. N.B. Attrition tends to wear out the trowel; it is crucial to maintain the proper thickness of the teeth for the entire installation period, restoring it with the flex tool, if necessary <p>For exterior installation, in pools or in high-humidity areas (Turkish bath, bio sauna, etc.):</p> <ul style="list-style-type: none"> - use the Pool Installation System (Ad Hoc+Ultra adhesive and Pool eGrout epoxy grout) - For installation on swimming pools with salt water or thermal spring water, use epoxy products only: we recommend the Bisazza Epoxy Pool Installation System (epoxy eGlue adhesive + Pool eGrout epoxy grout) and waterproofing with epoxy membrane - <u>We strongly recommend mosaic tiles mounted on paper.</u> - Blends with Gloss or Glow tiles: Not suitable for tiling thermal pools in general, and especially not those with sulphur waters - Blends with Oro Bis bianco (white gold) tiles: replace Oro Bis bianco with Platino tiles, to fully guarantee against risk of oxidation <p>Average consumption Bisazza Ad Hoc: 1.25 kg/sqm (two coats of skimming included) Average consumption Bisazza Ultra: 0.8 kg/sqm Average consumption Bisazza eGlue: 1.6 kg/sqm (please add 0.9 Kg/sqm for the skimming)</p> <p>* except for any specific standards or codes enforced by an individual country.</p>
B	<p>Grouting For the best results and performance, use Bisazza Fillgel Plus. The grout colour will affect the final aesthetic appearance of the installed tile.</p> <p>Because Fillgel 1104 neutro base is a colourless and semi-transparent grout, it must be applied with special care. Due to its colourless nature, some yellowing occurs when exposed to sunlight (UV radiation), which becomes more noticeable with time. This is why Fillgel 1104 neutro base cannot be used for exterior applications or in outdoor pools. For pools and outdoor use, Bisazza recommends Pool eGrout epoxy grout.</p> <p>Average consumption Bisazza Fillgel Plus: 1.45 kg/sqm Average consumption Bisazza Pool eGrout: 1.35 kg/sqm</p> <p>For further information on installation procedures, consult the installation manual and product technical data sheets.</p>

7	MAINTENANCE
	<p>Use ordinary cleaning products (except those containing hydrofluoric acid or phosphoric acid), for maintenance and cleaning of glass mosaic surfaces, taking care to rinse thoroughly with water. Alkaline detergents should be used cautiously and quickly rinsed off with water. Cleaning products should never be used on hot surfaces or those directly exposed to sunlight. Avoid using abrasive tools and high-pressure water jets (pressure washing).</p>

8	WARNINGS
	<p>The colour of the mosaic tiles is never perfectly uniform or even. Slight chipping in some tiles is a characteristic feature of the product. Also, please note: it is impossible to guarantee that tile colours in subsequent orders will be identical.</p> <p>Prior to installation, all materials should be stored in a dry place sheltered from rain and humidity. For information on use with fibreglass or steel swimming pools, contact Bisazza’s technical office: installation.department@bisazza.com.</p>