

**20x20 mm BLENDS**

1	DESCRIPTION
	<p>Glass mosaic composed of bevelled, randomly arranged square tesserae. The square glass tesserae, 20x20mm (3/4"x3/4"), are mounted on paper or on mesh.</p> <p>With regard to the technical specifications (point 4), please refer to the data on individual components.</p>

2	APPLICATIONS	
<b>A</b>	INTERIOR WALLS	Walls and ceilings in general, of any shape and size, for residential and public buildings
<b>B</b>	INTERIOR FLOORING	Light traffic (private residential rooms)
<b>C.1</b>	<ul style="list-style-type: none"> <li>- EXTERNAL WALLS</li> <li>- SWIMMING POOLS</li> <li>- HUMID AREAS (bio sauna, spa, etc.)</li> </ul>	For these applications we strongly suggest to use mosaic glued on <u>paper</u> .

**Blends with GLOSS / GLOW**

<b>C.2</b>	<ul style="list-style-type: none"> <li>- EXTERNAL WALLS</li> <li>- SWIMMING POOLS</li> <li>- HUMID AREAS (bio sauna, spa, etc.)</li> </ul>	<p>Due to its good resistance to hydrolytic and alkali attacks, it is suitable for swimming pool tiling.</p> <p>For these applications we strongly suggest to use mosaic glued on <u>paper</u>.</p> <p><b>Not suitable for tiling thermal pools in general, especially those with sulphur waters.</b></p>
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**Blends with ORO BIS**

<b>C.3</b>	<ul style="list-style-type: none"> <li>- EXTERNAL WALLS</li> <li>- SWIMMING POOLS</li> <li>- HUMID AREAS (shower, bio sauna, spa, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>- Oro Bis giallo (yellow gold): suitable for the specified applications (ref. ANSI A 137.2-2012: Resistance to thermal shocks)</li> <li>- Oro Bis bianco (white gold): it is recommended to replace it with Platino mosaic, which provides a full guarantee against the risks of oxidation</li> </ul>
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3	WEIGHTS AND MEASUREMENTS	
	Format	20x20mm
	Mounting	paper or mesh
	Sheet dimension	322x322mm
	Number of tiles/sheet	225
	Thickness	4 mm
	Joint	~1.57 mm
	Weight	7 kg/sqm
	Quantity/carton	2.07 sqm*
	Sheets/carton	20*

\*except for Gold collection (10 sheets per carton – 1.03 sqm)

<b>4.a TECHNICAL CHARACTERISTICS - VETRICOLOR</b>				
	<b>Description</b>	<b>Test</b>	<b>Established limits</b>	<b>Result</b>
VTC + VTC MATT	Water absorption	ISO 10545 - 3	E ≤ 0.5%	< 0.5
	Resistance to thermal shocks	ISO 10545 - 9	15°-145°C	resistant
	Resistance to chemical attack	ISO 10545 -13		resistant
	Frost resistance	ISO 10545 - 12		resistant
	Colours' resistance to fading	DIN 51094		resistant
	Stain resistance	ISO 10545 - 14		resistant
	Resistance to thermal shocks	ANSI A 137.2-2012	+15/+71°C	resistant
VTC	Slip resistance	DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A+B
		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 ≤ μ < 0.74    ≥ 0.74	0.59
		DIN 51130	R9 - R13	R11
		ENV 12633:2006	Class 0-3 (3 Rd≥45)	Class 3 (46)

<b>4.b TECHNICAL CHARACTERISTICS - LE GEMME</b>				
	<b>Description</b>	<b>Test</b>	<b>Established limits</b>	<b>Result</b>
GM + GM MATT	Water absorption	ISO 10545 - 3	E ≤ 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 shocks	ANSI A 137.2-2012	+15/+71°C	resistant
GM	Slip resistance	DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A+B
		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)

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

<b>4.c TECHNICAL CHARACTERISTICS – GLOSS / GLOW</b>				
	<b>Description</b>	<b>Test</b>	<b>Established limits</b>	<b>Result</b>
	Water absorption	ISO 10545 - 3	E ≤ 0.5%	0
	Resistance to chemical attack	ISO 10545 -13		resistant
	Frost resistance	ISO 10545 - 12		resistant
	Colours' resistance to fading	DIN 51094		resistant
	Resistance to thermal shocks	ANSI A 137.2-2012	+15/+71°C	resistant

4.d TECHNICAL CHARACTERISTICS - SMALTO				
	Description	Test	Established limits	Result
SM + SM MATT	Water absorption	ISO 10545 - 3	E ≤ 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 shocks	ANSI A 137.2-2012	+15/+71°C	resistant
	SM	Slip resistance	DIN 51130	R9 - R13
DIN 51097			A(12°-18°) B(18°-24°) C(+24°)	A+B(18°)
SM MATT	Slip resistance	DIN 51130	R9 - R13	R10
		DIN 51097	A(12°-18°) B(18°-24°) C(+24°)	A+B (21°)
		ENV 12633:2006	Class 0-3 (3 Rd≥45)	Class 2 (41)
		BS 7976	>36 (low)	50-53 (wet)

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

4.e TECHNICAL CHARACTERISTICS - CANVAS					
	Description	Test	Established limits	Result	
	Water absorption	ISO 10545 - 3	E ≤ 0.5%	< 0.5	
	Resistance to chemical attack	ISO 10545 - 13		resistant	
	Frost resistance	ISO 10545 - 12		resistant	
	Colours' resistance to fading	DIN 51094		resistant	
	Stain resistance	ISO 10545 - 14		resistant	
	Resistance to thermal shocks	ANSI A 137.2-2012	+15/+71°C	resistant	
	Slip resistance		DIN 51097	A (12°-18°) B (18°-24°) C (+24°)	A

4.f TECHNICAL CHARACTERISTICS - 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 shocks	ISO 10545 - 9		resistant
	Resistance to chemical attack	ISO 10545 - 13		resistant
	Frost resistance	ISO 10545 - 12		resistant
	Colours' resistance to fading	DIN 51094		resistant
	Resistance to thermal shocks	ANSI A 137.2-2012	+15/+71°C	resistant
	FLOW	Slip resistance	DIN 51130	R9 - R13
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			
	Description	Test	Established limits	Result
	Resistance to chemical attack	ISO 10545 - 13	-	resistant
	Stain resistance	ISO 10545 - 14	-	resistant
	Resistance to thermal shocks	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"> <li>- ease of surface cleaning</li> <li>- light weight and thinness allow for easy renovations</li> <li>- colour brightness</li> <li>- pleasant to the touch</li> <li>- the reduced format makes it suitable for tiling curved surfaces                             <ul style="list-style-type: none"> <li>- 20x20 mm tiles glued on <u>mesh</u>: convex surfaces, 60 mm radius - concave surfaces, 50 mm radius</li> <li>- 20x20 mm tiles glued on <u>paper</u>: convex surfaces, 30 mm radius - concave surfaces, 40 mm radius</li> </ul> </li> </ul>

6	INSTALLATION
<b>A</b>	<p>For correct application, the support must have a perfectly smooth, even and white surface, and must be mature, dry, sound and stable.</p> <ul style="list-style-type: none"> <li>- Cement or plaster foundations: recommended use of adhesive Bisazza Ad Hoc</li> <li>- Foundations of other nature: recommended use of adhesive Bisazza eGlue</li> <li>- For the SHIFT version it is recommended to use edges in the corners and at the end of the wall</li> <li>- In the case of mosaics on paper, thoroughly wash the traces paper glue before grouting</li> <li>- When laying, use a spatula with 3,5 mm teeth</li> </ul> <p><b>For exteriors, submersed areas and humid areas (bio-sauna, Turkish bath, etc.):</b></p> <ul style="list-style-type: none"> <li>- Recommended use* of adhesive Bisazza Ad Hoc+Ultra</li> <li>- <u>We strongly suggest to use mosaic glued on paper</u></li> <li>- Blends with transparent or semi-transparent mosaic installed in swimming-pools or humid areas: recommended use of Bisazza Epoxy Installation Kit (Bisazza eGlue + Fillgel Plus UVR)</li> <li>- Blends with Gloss or Glow tiles: not suitable for tiling thermal pools in general, especially those with sulphur waters.</li> <li>- Blends with Oro Bis bianco (white gold): it is recommended to replace it with Platino mosaic, which provides a full guarantee against the risks of oxidation</li> </ul> <p><b>For swimming-pools with salty water or thermal water:</b> recommended use of Bisazza Installation Kit (Bisazza eGlue + Fillgel Plus UVR); we recommend waterproofing with epoxy products as well.</p> <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 rule or protocol enforced by the single Country.</p>

<b>B</b>	<p>Grouting:                  For the best results and performance, use Bisazza Fillgel Plus UVR.                  The grout colour will affect the final aesthetic appearance of the product installed.                  Being a colourless and semi-transparent grout, Fillgel 1104 neutro base needs to be used with special care. Because of its colourless feature, the yellowing due to UV rays exposure becomes more visible with time.                  For this reason, <b>Fillgel 1104 neutro base</b> cannot be used outdoors and in outdoor swimming-pools.                  Average consumption Bisazza FILLGEL PLUS UVR: 1.45 kg/sqm</p> <p><b>For any information on the installation procedure, consult the installation book and the products technical data sheets.</b></p>
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<b>7</b>	<b>MAINTENANCE</b>
	<p>Use ordinary cleaning products for maintenance and cleaning of glass mosaic surfaces (except those containing hydrofluoric acid or phosphoric acid), being careful to rinse thoroughly with water. Alkaline detergents should be used carefully and rapidly rinsed out with water. Any cleaning product should not be used on heated or directly exposed to sunrays surfaces. Avoid using abrasive tools and high pressure jets of water.</p>

<b>8</b>	<b>WARNINGS</b>
	<p>Before the application, all the 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>