

**VETRICOLOR (VTC) – LE GEMME (GM) – SMALTO (SM)**

1	DESCRIPTION
	<p>Glass mosaic, consisting of 20x20mm. (3/4"x3/4") and 10x10 mm. (3/8"x3/8") bevelled square tiles, mounted on paper or on a mesh, according to the item and format (10x10 mm only on paper).</p> <p>The Smalto (SM) collection is made by adding coloured enamel grit to the molten glass.</p> <p>The Le Gemme (GM) collection is made by adding coloured enamel grit and "Avventurina" to the molten glass.</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</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> .

3	WEIGHTS AND MEASUREMENTS		
	Format	10x10mm	20x20mm
	Mounting	paper	Paper or mesh according to the item
	Sheet dimension	322x322mm	322x322mm
	Number of tiles/sheet	900	225
	Thickness	4 mm	4 mm
	Joint	~0.76 mm	~1.57 mm
	Weight	7 kg/m <sup>2</sup>	7 kg/m <sup>2</sup>
	Quantity/carton	1.03 sqm	2.07 sqm
	Sheets/carton	10	20*

\*except for: Gold collection (10 sheets per carton) - Sfumature (8 sheets per carton)

4.a TECHNICAL CHARACTERISTICS - VETRICOLOR				
Description		Test	Established limits	Result
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)

4.b TECHNICAL CHARACTERISTICS - LE GEMME				
Description		Test	Established limits	Result
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.

4.c 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	R9
		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.

5 STRENGTHS	
	<ul style="list-style-type: none"> <li>- endless colour combination possibilities with other Bisazza collections to create personalized blends, shading blends and decors</li> <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>- possibility to create personalised decorations with whole tiles and orthogonal grids (20x20 or 10x10 mm) or with the artistic technique with manual cutting of the tile</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> <li>- 10x10 mm tiles glued on <u>paper</u>: convex surfaces, 20 mm radius - concave surfaces, 20 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 exteriors, submersed areas and humid areas: recommended use* of adhesive Bisazza Ad Hoc+Ultra</li> <li>- Transparent or semi-transparent mosaic installed in swimming-pools or humid areas (shower, bio-sauna, Turkish bath, etc...): recommended use of Bisazza Epoxy Installation Kit (Bisazza eGlue + Fillgel Plus UVR)</li> <li>- Installation in swimming-pools with salty water or thermal water: recommended use of Bisazza Installation Kit (Bisazza eGlue + Fillgel Plus UVR); we recommend waterproofing with epoxy products as well.</li> <li>- For the SHIFT version it is recommended to use edges in the corners and at the end of the wall</li> <li>- For submerged areas (pools, fountains) we strongly suggest to use mosaic glued on paper.</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>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><b>Grouting:</b>                      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, Fillgel 1104 neutro base 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>

7	MAINTENANCE
	<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>

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. It is also clearly pointed out that it cannot be guaranteed that colouring in subsequent orders will be identical.</p> <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>