

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

| 1 | DESCRIPTION |
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| | <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 | |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| A | INTERIOR WALLS | Walls and ceilings in general, of any shape and size, for residential and public buildings |
| B | FLOORING | Light traffic (private residential rooms) |
| C | <ul style="list-style-type: none"> - EXTERNAL WALLS - SWIMMING POOLS - HUMID AREAS (bio sauna, spa, etc.) | 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 ² | 7 kg/m ² |
| | 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 | |
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| | <ul style="list-style-type: none"> - endless colour combination possibilities with other Bisazza collections to create personalized blends, shading blends and decors - ease of surface cleaning - light weight and thinness allow for easy renovations - colour brightness - pleasant to the touch - 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 - the reduced format makes it suitable for tiling curved surfaces <ul style="list-style-type: none"> - 20x20 mm tiles glued on <u>mesh</u>: convex surfaces, 60 mm radius - concave surfaces, 50 mm radius - 20x20 mm tiles glued on <u>paper</u>: convex surfaces, 30 mm radius - concave surfaces, 40 mm radius - 10x10 mm tiles glued on <u>paper</u>: convex surfaces, 20 mm radius - concave surfaces, 20 mm radius |

| 6 | INSTALLATION |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A</p> | <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"> - Cement or plaster foundations: recommended use of adhesive Bisazza Ad Hoc - Foundations of other nature: recommended use of adhesive Bisazza eGlue - For exteriors, submersed areas and humid areas: recommended use* of adhesive Bisazza Ad Hoc+Ultra - 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) - 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. - For the SHIFT version it is recommended to use edges in the corners and at the end of the wall - For submerged areas (pools, fountains) we strongly suggest to use mosaic glued on paper. - In the case of mosaics on paper, thoroughly wash the traces paper glue before grouting - When laying, use a spatula with 3,5 mm teeth <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> |
| <p>B</p> | <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 e 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>For any information on the installation procedure, consult the installation book and the products technical data sheets.</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 |
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| | <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> |