

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

| 1 | DESCRIPTION |
|---|--|
| | <p>Glass mosaic, consisting of 20x20 mm (3/4"x3/4") and 10x10 mm (3/8"x3/8") square bevelled tiles, mounted on paper or mesh, depending on 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 Aventurine to the molten glass.</p> <p>Also available in a MATT version: classes A+B+C as defined by DIN 51097 matt and non-slip (wet-loaded barefoot areas) with the technical features indicated at point 4.</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 | <ul style="list-style-type: none"> - EXTERIOR WALLS - SWIMMING POOLS - HIGH-HUMIDITY AREAS (Turkish bath, bio sauna, etc.) | For the uses indicated, we strongly recommend mosaic tiles mounted on <u>paper</u> . |

| 3 | WEIGHTS AND MEASUREMENTS | | |
|---|--------------------------|------------|-------------------------------------|
| | Size | 10x10 mm | 20x20 mm |
| | Mounting | paper | paper or mesh depending on the item |
| | Sheet dimensions | 322x322 mm | 322x322 mm |
| | Number of tiles/sheet | 900 | 225 |
| | Thickness | 4 mm | 4 mm |
| | Joint | ~0.76 mm | ~1.57 mm |
| | Weight | 7 kg/sqm | 7 kg/sqm |
| | Quantity/carton | 1.03 sqm | 2.07 sqm |
| | Sheets/carton | 10 | 20* |

*except for: Gold Blends (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 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°) | 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 shock | 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) |
| | | DIN 51097 | A(12°-18°) B(18°-24°) C(+24°) | A+B+C |
| | | DIN 51130 | R9 - R13 | R11 |

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

| 5 | STRENGTHS |
|---|---|
| | <ul style="list-style-type: none"> - countless colour combination possibilities with other Bisazza collections to create personalised blends, shading blends or decorative effects - ease of surface cleaning - lightweight and thin, ideal for renovation projects - colour brightness - pleasant to the touch - Possibility to create customised decorations with whole tiles and grid mesh (20x20 or 10x10 mm) or with the artistic technique that involves manual cutting of the tile - its reduced size makes it suitable for tiling curved surfaces <ul style="list-style-type: none"> - 20x20 mm tiles mounted on <u>paper</u>: convex surfaces, 30 mm radius - concave surfaces, 40 mm radius - 20x20 mm tiles mounted on <u>mesh</u>: convex surfaces, 60 mm radius - concave surfaces, 50 mm radius - 10x10 mm tiles mounted on <u>paper</u>: convex surfaces, 20 mm radius - concave surfaces, 20 mm radius |

| | |
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| 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 using Bisazza Ad Hoc+Ultra* adhesive - Other types of substrates: we recommend Bisazza eGlue adhesive - For swimming pool and exterior installation, we recommend the Bisazza 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. - For installation of the most transparent VTC colours (see list below), all of the 10x10 mm decorations, Shading blends 10x10 mm and all of the artistic technique decorations, we always recommend the Bisazza Epoxy Installation Kit (eGlue epoxy adhesive + Fillgel Plus epoxy grout); for swimming pool installation of these collections, use the Bisazza Epoxy Pool Installation System (eGlue epoxy adhesive + Pool eGrout epoxy grout). <p>Transparent colours: VTC 20.03 - VTC 20.05 - VTC 20.09 - VTC 20.15 - VTC 20.18 - VTC 20.37 - VTC 20.62 - VTC 20.87 VTC 10.03 - VTC 10.05 - VTC 10.09 - VTC 10.15 - VTC 10.18 - VTC 10.37 - VTC 10.62 - VTC 10.87</p> <ul style="list-style-type: none"> - For the SHIFT version, we recommend the use of profiles in the corners and on wall ends - <u>For installation in pools or other high-humidity areas, we strongly recommend using paper-mounted mosaic tiles</u> - 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>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</p> <p>For the best results and performance, use Bisazza Fillgel Plus. The grout colour will affect the final aesthetic appearance of the installed tile. A colourless and semi-transparent grout, Fillgel 1104 neutro base must be applied with special care. Because it is colourless, some yellowing occurs when exposed to sunlight (UV radiation) which becomes more noticeable with time. This is why Fillgel 1104 neutro base <u>cannot be used</u> 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 the installation process, 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 the sun's rays. Avoid using abrasive tools and high-pressure water jets (pressure washing).</p> |
| 8 | WARNINGS |
| | <p>The colour of 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> |