

# Technical Data Sheet UKIYO



**According to EN 14411, EN 12720 standards**

All the data collected in this document are based on tests carried out in independent external laboratories.

**Name and address of manufacturer**

Company: Cosentino Industrial, S.A.U.

Address: Carretera A-334, km 59, 04850 Cantoria (Almeria) - Spain

**TECHNICAL  
CONTENT**

REV. 01 - 11/2023

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According to EN 14411, EN 12720 standards

| Test   Standard                                              | Determination                         |              | Unit  | Pattern GV2                                                               | Pattern GV3             |
|--------------------------------------------------------------|---------------------------------------|--------------|-------|---------------------------------------------------------------------------|-------------------------|
| Water absorption<br>EN 10545-3                               | Water absorption                      |              | %     | 0.1                                                                       |                         |
| Flexural strength*<br>EN 10545-4                             | Groove parallel to the load axis      |              | MPa   | 36.2                                                                      | 26.1                    |
|                                                              | Groove perpendicular to the load axis |              |       | 42.9                                                                      | 41.3                    |
| Thermal shock<br>EN 10545-9                                  | Resistance to thermal shock           |              | -     | Not recommended for use in outdoor areas with high temperature variations |                         |
| Outdoor durability<br>EN 10545-12                            | Frost resistance (freezing - thawing) |              | -     | Pass                                                                      |                         |
| Resistance to chemicals (Grooves)<br>EN 10545-13             | HCl, 3%                               | Light colors | Class | LA - no visible effects                                                   | LA - no visible effects |
|                                                              |                                       | Dark colors  |       | LA - no visible effects                                                   | LA - no visible effects |
|                                                              | HCl, 18%                              | Light colors |       | HA - no visible effects                                                   | HA - no visible effects |
|                                                              |                                       | Dark colors  |       | HA - no visible effects                                                   | HA - no visible effects |
|                                                              | KOH, 30 g/L                           | Light colors |       | LA - no visible effects                                                   | LA - no visible effects |
|                                                              |                                       | Dark colors  |       | LB - clear modification                                                   | LB - clear modification |
|                                                              | KOH, 100 g/L                          | Light colors |       | HA - no visible effects                                                   | HA - no visible effects |
|                                                              |                                       | Dark colors  |       | HB - clear modification                                                   | HB - clear modification |
| Resistance to chemicals (Non grooved surface)<br>EN 10545-13 | HCl, 3%                               |              | Class | LA - no visible effects                                                   |                         |
|                                                              | HCl, 18%                              |              |       | HA - no visible effects                                                   |                         |
|                                                              | KOH, 30 g/L                           |              |       | LA - no visible effects                                                   |                         |
|                                                              | KOH, 100 g/L                          |              |       | HA - no visible effects                                                   |                         |
| Resistance to staining (Grooves)<br>EN 10545-14              | Green agent in light oil              | Light colors | Class | 5                                                                         | 5                       |
|                                                              |                                       | Dark colors  |       | 1                                                                         | 1                       |
|                                                              | Red agent in light oil                | Light colors |       | 3                                                                         | 3                       |
|                                                              |                                       | Dark colors  |       | 1                                                                         | 1                       |
| Resistance to staining (Non grooved surface)<br>EN 10545-14  | Green agent in light oil              |              | Class | 5                                                                         |                         |
|                                                              | Red agent in light oil                |              |       | 5                                                                         |                         |

→ ( \* ) Average value.

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| Test   Standard                                         | Determination          |              | Unit              | Pattern GV2                                                       | Pattern GV3 |
|---------------------------------------------------------|------------------------|--------------|-------------------|-------------------------------------------------------------------|-------------|
| <b>Bonding</b><br>EN 12004                              | Cementitious adhesives |              | N/mm <sup>2</sup> | 1.94 (The breakage was caused by the adhesive and not by Dekton®) |             |
| <b>Resistance to cold liquids (Grooves)</b><br>EN 12720 | Acetic acid, 10%       | Light colors | Class             | 5                                                                 | 5           |
|                                                         |                        | Dark colors  |                   | 5                                                                 | 5           |
|                                                         | Acetone                | Light colors |                   | 5                                                                 | 5           |
|                                                         |                        | Dark colors  |                   | 5                                                                 | 5           |
|                                                         | Ammonia solution       | Light colors |                   | 5                                                                 | 5           |
|                                                         |                        | Dark colors  |                   | 5                                                                 | 5           |
|                                                         | Coffee                 | Light colors |                   | 3                                                                 | 3           |
|                                                         |                        | Dark colors  |                   | 3                                                                 | 3           |
|                                                         | Phenolic disinfect.    | Light colors |                   | 5                                                                 | 3           |
|                                                         |                        | Dark colors  |                   | 5                                                                 | 4           |
|                                                         | Chlorine disinfect.    | Light colors |                   | 5                                                                 | 5           |
|                                                         |                        | Dark colors  |                   | 5                                                                 | 5           |
|                                                         | Ethanol                | Light colors |                   | 5                                                                 | 5           |
|                                                         |                        | Dark colors  |                   | 5                                                                 | 5           |
|                                                         | Olive oil              | Light colors |                   | 5                                                                 | 2           |
|                                                         |                        | Dark colors  |                   | 5                                                                 | 2           |
|                                                         | Kerosene oil           | Light colors |                   | 5                                                                 | 2           |
|                                                         |                        | Dark colors  |                   | 5                                                                 | 2           |
|                                                         | Tea                    | Light colors |                   | 3                                                                 | 3           |
|                                                         |                        | Dark colors  |                   | 3                                                                 | 3           |

→ ( \* ) Average value.

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| Test   Standard                                                     | Determination          | Unit  | Pattern GV2 | Pattern GV3 |
|---------------------------------------------------------------------|------------------------|-------|-------------|-------------|
| <b>Resistance to cold liquids (Non grooved surface)</b><br>EN 12720 | Acetic acid, 10%       | Class |             | 5           |
|                                                                     | Acetone                |       |             | 5           |
|                                                                     | Ammonia solution       |       |             | 5           |
|                                                                     | Coffee                 |       |             | 5           |
|                                                                     | Phenolic disinfectant  |       |             | 5           |
|                                                                     | Chlorine disinfectant  |       |             | 5           |
|                                                                     | Ethanol                |       |             | 5           |
|                                                                     | Olive oil              |       |             | 5           |
|                                                                     | Kerosene oil           |       |             | 5           |
|                                                                     | Tea                    |       |             | 5           |
| <b>Reaction to fire</b><br>EN 13501-1                               | Reaction to fire class | Class | A1, A1fl    |             |

→ ( \* ) Average value.