

## ZNR™ TILEBOND SERIES 1000 + FLEX TILE ADHESIVE

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| Product Description             | Cement based, one-component, tiles, ceramic tiles, granite and marble, concrete, plaster, cement used for bonding on surfaces such as grout, with high stability, easy to use and highly economical adhesive.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Product No                      | 700-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Public Works No                 | 04.013/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Areas of Application            | <ul style="list-style-type: none"><li>● Bonding of ceramic tiles, glazed tile, granite, marble, decorative bricks, glass mosaic, Cast and natural Stone.</li><li>● For vertical and horizontal applications on the interior and exterior of buildings,</li><li>● On surfaces with floor heating systems, industrial floors, and all surfaces that are susceptible to shrinkage or thermal movements,</li><li>● Bonding of all kinds of high absorbent ceramic coatings,</li><li>● On wet areas like bathroom, kitchen, balcony, terrace, swimming pools and water reservoirs.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Advantages                      | <ul style="list-style-type: none"><li>● It can be used interior and exterior.</li><li>● Easy to prepare and apply, elongated application time,</li><li>● It can be safely applied on horizontal and vertical surfaces.</li><li>● After cured it is durable to frost and water.</li><li>● Resistant to shock and vibration, it shows high adhesion.</li><li>● Concrete, cementitious mortar, stone, bricks etc. It shows very good adhesion on different surface types.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Quality Certificates            | TS EN 12004 C2TE<br>C2 : Enhanced cement based adhesive<br>T : Slip is reduced<br>E : Extended Working Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Technical Data                  | <table><tr><td>Color</td><td colspan="2">White</td></tr><tr><td>Packaging</td><td colspan="2">25 kg</td></tr><tr><td>Density (Fresh Mortar)</td><td colspan="2">~ 1,80 kg / m³ (at 23 °C)</td></tr><tr><td rowspan="6">Tensile Adhesion Test</td><td>Starting</td><td>≥ 0,5 N/mm²<br/>~1,5 N/mm²</td></tr><tr><td>Submerged into Water</td><td>≥0,5 N/mm²<br/>~1,1 N/mm²</td></tr><tr><td>After aging with Heat</td><td>≥0,5 N/mm²<br/>~0,8 N/mm²</td></tr><tr><td>Freez-Thaw Cycle</td><td>≥0,5 N/mm²<br/>~1,2 N/mm²</td></tr><tr><td>Slipping</td><td>≤0,5 N/mm²</td></tr><tr><td></td><td></td></tr><tr><td>Surface and Ambient Temperature</td><td colspan="2">+5 °C / +35 °C</td></tr><tr><td>Temperature Resistance</td><td colspan="2">-15 °C / +80 °C</td></tr><tr><td>Open Time</td><td colspan="2">70 minutes (at 23 °C)</td></tr><tr><td>Pot life</td><td colspan="2">Approx. 180 minutes (at 23 °C)</td></tr><tr><td>Application Tool</td><td colspan="2">Notched trowel suitable for ceramic size</td></tr><tr><td>Starting Tile Grout</td><td colspan="2">24–48 hrs. (dependent on wall or floor application)</td></tr><tr><td>Consumption</td><td colspan="2">~3,00 – 7,00 kg / m² Consumption values may vary depending on the condition and roughness of the surface, size of the adhered material, and placing technique (application of the adhesive on wall or on ground)</td></tr><tr><td>Storage</td><td colspan="2">Shelf life is approximately 12 months. Products should be stacked in a cool and dry place, with maximum 10 bags on each other</td></tr></table> |                           |  | Color | White |  | Packaging | 25 kg |  | Density (Fresh Mortar) | ~ 1,80 kg / m³ (at 23 °C) |  | Tensile Adhesion Test | Starting | ≥ 0,5 N/mm²<br>~1,5 N/mm² | Submerged into Water | ≥0,5 N/mm²<br>~1,1 N/mm² | After aging with Heat | ≥0,5 N/mm²<br>~0,8 N/mm² | Freez-Thaw Cycle | ≥0,5 N/mm²<br>~1,2 N/mm² | Slipping | ≤0,5 N/mm² |  |  | Surface and Ambient Temperature | +5 °C / +35 °C |  | Temperature Resistance | -15 °C / +80 °C |  | Open Time | 70 minutes (at 23 °C) |  | Pot life | Approx. 180 minutes (at 23 °C) |  | Application Tool | Notched trowel suitable for ceramic size |  | Starting Tile Grout | 24–48 hrs. (dependent on wall or floor application) |  | Consumption | ~3,00 – 7,00 kg / m² Consumption values may vary depending on the condition and roughness of the surface, size of the adhered material, and placing technique (application of the adhesive on wall or on ground) |  | Storage | Shelf life is approximately 12 months. Products should be stacked in a cool and dry place, with maximum 10 bags on each other |  |
| Color                           | White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Packaging                       | 25 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Density (Fresh Mortar)          | ~ 1,80 kg / m³ (at 23 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Tensile Adhesion Test           | Starting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≥ 0,5 N/mm²<br>~1,5 N/mm² |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
|                                 | Submerged into Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≥0,5 N/mm²<br>~1,1 N/mm²  |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
|                                 | After aging with Heat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≥0,5 N/mm²<br>~0,8 N/mm²  |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
|                                 | Freez-Thaw Cycle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≥0,5 N/mm²<br>~1,2 N/mm²  |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
|                                 | Slipping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≤0,5 N/mm²                |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Surface and Ambient Temperature | +5 °C / +35 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Temperature Resistance          | -15 °C / +80 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Open Time                       | 70 minutes (at 23 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Pot life                        | Approx. 180 minutes (at 23 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Application Tool                | Notched trowel suitable for ceramic size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Starting Tile Grout             | 24–48 hrs. (dependent on wall or floor application)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Consumption                     | ~3,00 – 7,00 kg / m² Consumption values may vary depending on the condition and roughness of the surface, size of the adhered material, and placing technique (application of the adhesive on wall or on ground)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Storage                         | Shelf life is approximately 12 months. Products should be stacked in a cool and dry place, with maximum 10 bags on each other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |
| Surface Preparation             | The substrate should be cleaned of all loose parts, oil and other chemicals and the defects on the surface are to be repaired with <b>ZNR</b> Repair Mortar. If the temperature of the surface, where the application will take place, is above 35°C, surface has to be saturated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |  |       |       |  |           |       |  |                        |                           |  |                       |          |                           |                      |                          |                       |                          |                  |                          |          |            |  |  |                                 |                |  |                        |                 |  |           |                       |  |          |                                |  |                  |                                          |  |                     |                                                     |  |             |                                                                                                                                                                                                                  |  |         |                                                                                                                               |  |

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| <b>Preparation</b>                       | <b>ZNR TILEBOND SERIES 1000 +</b><br>25 kg powder material is poured into 7-7,5 LT (it may vary depending on air temperature) of clean and cool mixing water and with a low-speed and suitable mixer, a smooth homogeneous mixture is obtained in 3-4 minutes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Application</b>                       | After resting the mixture for 3-5 minutes it is stirred again, it is pulled in one direction with a fine-toothed notched trowel which is suitable for the ceramic size. Ceramics are bonded over the mortar which are combed in 30 minutes. Open time is approximately 20 minutes at normal temperature and humidity conditions. Depending on ambient conditions, during adhesion desired joint gap is left between ceramics; and in order to ensure full contact of the mortar on the surface to the ceramic, it is gently pressed and made sure it floats in the mortar. Mortaring operation should be made approximately 24 hours later in wall applications and 48 hours later in floor applications. It is recommended to use a suitable <b>ZNR Joint Sealant</b> for the joints. |
| <b>Points to Take into Consideration</b> | <ul style="list-style-type: none"><li>• Expired or crusted mortar must not be used. Hardened mortar must not be re-watered Do not use more than the amount suggested. It will affect the adhesion performance, should not be dampened to extend the open waiting time. Only apply on prepared surfaces. The coating should be pre-moistened.</li><li>• Do not apply thicker than suggested.</li><li>• Applications should be protected from rain, frost, wind, direct sunlight, and extreme heat for the first 24 hours.</li></ul>                                                                                                                                                                                                                                                     |
| <b>General Considerations</b>            | The above-mentioned information was obtained with our careful research and experimentation in order to guide the application. Variety of materials and construction conditions cannot be controlled or affected individually. Incidents beyond our control are only limited to warranty on product quality. No warranties on application are implied other than manufactured product. This technical data sheet nullifies any prior technical data sheet. The quality and performance of the product is relative to the utilization technique. In case of a doubt a small test or getting technical support is recommended.                                                                                                                                                            |
| <b>Disposal</b>                          | Empty packaging can be disposed of according to local and state regulations, or can be collected in recycling bins. Waste material must be disposed as construction waste after dried completely. Incinerating the waste product is dangerous.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Safety Information</b>                | Keep products out of reach of children. Keep product sealed at all times. Using protective gear such as goggles and gloves is recommended. In case of skin contact the surface must be cleaned with fresh water and soap. In case of eye contact a physicians must be seen immediately. Further information can be obtained from safety data sheet                                                                                                                                                                                                                                                                                                                                                                                                                                     |