

## ZNR™ TILEBOND FLEX GREY

### Flexible Tile Adhesive

Product Description	A high-quality, one-component, flexible cement-based adhesive mortar for bonding tiles, ceramics, granite, and marble to cement-based surfaces such as concrete, plaster, and screed.																																																						
Product Number	701																																																						
Public Works Item Number	04,013/1																																																						
Areas of Application	<ul style="list-style-type: none"><li>● <b>Applications:</b></li><li>● Suitable for strong adhesion of tiles, ceramics, glazed tiles, granite, marble, decorative bricks, glass mosaics, and natural or cast stones.</li><li>● Ideal for ceramic coatings with low absorption capacity.</li><li>● Recommended for wet areas such as kitchens, balconies, terraces, swimming pools, and water reservoirs.</li><li>● Compatible with various surfaces, including concrete, mortar, brick, gypsum (with primer), plasterboard, prefabricated light concrete, anhydrite (with primer), and underfloor heating systems.</li><li>● Suitable for surfaces with existing ceramic coatings and areas prone to warping or thermal movements.</li><li>● Can be used on low-absorption surfaces where primer is not preferred.</li><li>● Applicable for both vertical and horizontal surfaces in interior and exterior settings.</li></ul>																																																						
Reference Standard	C2TE as per TS EN 12004 C2 : Cement based, high strength T : Decreased Sliding Feature E : Extended working time																																																						
Technical Data	<table><tr><td>Powder Color</td><td colspan="2">Grey</td></tr><tr><td>Package</td><td colspan="2">25 kg kraft bags</td></tr><tr><td>Density (Fresh Mortar)</td><td colspan="2">~ 1.8 kg/m³ (at +23°C)</td></tr><tr><td rowspan="7">Tensile Adhesion Strength</td><td>Initial</td><td>≥1.0 N/mm² ~1.5 N/mm²</td></tr><tr><td>After Immersing into Water</td><td>≥1.0 N/mm² ~1.5 N/mm²</td></tr><tr><td>After Aging with Heat</td><td>≥1.0 N/mm² ~1.5 N/mm²</td></tr><tr><td>After Freezing-Thawing Conversions</td><td>≥1.0 N/mm² ~1.5 N/mm²</td></tr><tr><td>Exposed Waiting Time (after 20 minutes)</td><td>≥0.5 N/mm² ~1.5 N/mm²</td></tr><tr><td>Sliding</td><td>≤ 0.5 mm</td></tr><tr><td>Reaction to Fire Class</td><td colspan="2">A1</td></tr><tr><td>Surface and Ambient Temperature</td><td colspan="2">+5°C / +35°C</td></tr><tr><td>Temperature Strength</td><td colspan="2">- 15°C / + 80°C</td></tr><tr><td>Exposure</td><td colspan="2">45 minutes</td></tr><tr><td>Pot Life</td><td colspan="2">Approximately 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>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 the single or double side).</td></tr><tr><td>Opening for Pedestrian Traffic</td><td colspan="2">24 hours</td></tr><tr><td>Starting with Joint Gap Application</td><td colspan="2">24–48 hours (depends whether 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>			Powder Color	Grey		Package	25 kg kraft bags		Density (Fresh Mortar)	~ 1.8 kg/m³ (at +23°C)		Tensile Adhesion Strength	Initial	≥1.0 N/mm² ~1.5 N/mm²	After Immersing into Water	≥1.0 N/mm² ~1.5 N/mm²	After Aging with Heat	≥1.0 N/mm² ~1.5 N/mm²	After Freezing-Thawing Conversions	≥1.0 N/mm² ~1.5 N/mm²	Exposed Waiting Time (after 20 minutes)	≥0.5 N/mm² ~1.5 N/mm²	Sliding	≤ 0.5 mm	Reaction to Fire Class	A1		Surface and Ambient Temperature	+5°C / +35°C		Temperature Strength	- 15°C / + 80°C		Exposure	45 minutes		Pot Life	Approximately 180 minutes (at +23 °C)		Application Tool	Notched trowel suitable for ceramic size		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 the single or double side).		Opening for Pedestrian Traffic	24 hours		Starting with Joint Gap Application	24–48 hours (depends whether 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.	
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<b>Surface Preparation</b>	Remove loose particles, grease, and other contaminants from the application area. Repair surface defects using <b>ZNR REPAIR</b> mortar. If the surface temperature exceeds 25°C, moisten and saturate it before application. Primer is generally not required under normal conditions. However, for challenging adhesion conditions, use a suitable <b>ZNR</b> primer based on the surface type.
<b>Preparation Instructions</b>	Gradually add 25 kg of <b>ZNR TILEBOND FLEX GREY</b> powder to 7.00-7.75 liters of clean, cool water (adjust based on air temperature). Do not add water to the powder. Mix with a low-speed mixer for 3-4 minutes until a homogeneous and smooth consistency is achieved.
<b>Application</b>	After allowing the mixture to rest for 3-5 minutes, mix again and apply it uni-directionally using a notched trowel appropriate for the ceramic size. Place the ceramics onto the notched mortar within 30 minutes under normal temperature and humidity conditions. The open time is approximately 30 minutes but may be shorter depending on ambient conditions. Ensure proper joint spacing between ceramics, and gently press them to achieve full contact with the mortar. For wall applications, joint mortaring can be performed after approximately 24 hours, while for floors, wait around 48 hours. It is recommended to use a suitable <b>ZNR Tile Grout (ZNR FUGA FLEX)</b> for joint filling.
<b>Considerations</b>	<b>Usage Precautions:</b> <ul style="list-style-type: none"><li>• Do not use expired or encrusted mortar. Avoid adding water to hardened mortar and do not exceed the recommended water ratio.</li><li>• Do not moisten the applied adhesive to extend open time, as this may reduce adhesion performance.</li><li>• Apply only on firm, properly prepared surfaces. Pre-moisten coatings before application.</li><li>• Do not exceed the recommended thickness.</li><li>• Cement-based surfaces must cure for at least 28 days before application.</li><li>• Gypsum surfaces should be at least 10 mm thick and have a maximum moisture content of 5%.</li><li>• Protect the application from rain, frost, wind, direct sunlight, and high temperatures for the first 24 hours.</li></ul>
<b>General Matters</b>	<b>Disclaimer:</b> <p>The above product data and descriptions are provided for guidance based on our experience and diligent studies. However, we cannot control the variety of related materials, construction conditions, or working environments.</p> <p>Our warranty covers only the quality of the purchased material and does not extend to application performance, which is beyond our control. This technical document supersedes all previous versions. The quality of the final result depends on the professional application of the product.</p> <p>In case of uncertainty, we recommend conducting a small test or seeking technical assistance.</p>
<b>Disposal</b>	<b>Disposal Instructions:</b> <ul style="list-style-type: none"><li>• Dispose of empty packaging in designated collection bins following regional or local regulations and recycling guidelines.</li><li>• Used waste materials should be disposed of as construction waste after drying and hardening.</li><li>• Do not burn product remnants, as this is hazardous.</li></ul>
<b>Safety Information</b>	<b>Safety Precautions:</b> <ul style="list-style-type: none"><li>• Keep the product out of reach of children.</li><li>• Ensure lids are tightly closed when not in use.</li><li>• Wear gloves and goggles during application.</li><li>• In case of skin contact, wash immediately with soap and water.</li><li>• In case of eye contact, seek medical attention immediately.</li><li>• For detailed safety information, refer to the material safety data sheet (MSDS).</li></ul>