

## TECHNICAL DATA SHEET

## NIPPON SUPERBOND 168

<b>Description</b>	NIPPON SUPERBOND 168 is a high-performance tile and stone adhesive mortar, commonly referred to as a premium interior tile adhesive, which has been specifically developed for indoor applications. The product is formulated from high-quality cement, silica, refined fine aggregates, specialized polymers, and dedicated additives, which collectively deliver superior bonding strength. This unique composition ensures optimal adhesive performance, contributing to the structural durability of interior areas, including wet locations such as kitchens, bathrooms, and balconies.
<b>Type</b>	Form: Powder Color: Gray
<b>Ingredients</b>	High-quality cement, calcium carbonate, silica, plasticizers, binders, and anti-cracking agents.
<b>Uses</b>	It is the ideal adhesive mortar for tiling applications involving: ceramic, granite, and mosaic tiles (with water absorption greater than 0.5%), natural or artificial stone (up to a maximum weight of 45kg/m <sup>2</sup> ). Suitable substrates include: concrete, cement screeds, and plastered brick walls.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Adhesion strength is 6 times higher than that of regular mortar.</li> <li>- Contributes to waterproofing.</li> <li>- Excellent slip resistance.</li> <li>- Extends tile adjustment time, making it easy to apply.</li> <li>- Reduces shrinkage, cracking, or subsidence after curing.</li> <li>- Environmentally friendly.</li> <li>- No need to soak tiles in water before application.</li> <li>- Saves time, effectively replacing traditional cement mortar for tiling.</li> </ul> <p><b>QUALITY CERTIFICATION [EN 12004-2:2017, 8.3 or TCVN 7899-2 (ISO 13007-2)]</b></p> <p><b><u>Disclaimer:</u></b> The results are based on laboratory testing and may vary due to differing application methods and site conditions.</p>
<b>APPLICATION DATA</b>	
<b>Surface Preparation</b>	Concrete/mortar bases and walls must be clean, solid, dry, and free of grease, dust, wax, or other impurities. If the surface is too dry or hot, lightly moisten it, but do not let water pool. Clean the back of the tiles thoroughly to prevent impurities or dust from reducing adhesive strength.
<b><u>Recommended Treatment:</u></b>	

## NIPPON PAINT (VIETNAM) CO., LTD

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www.nipponpaint.com

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	<u>Dirt, Dust:</u> Clean with high-pressure water. <u>Oil/Grease:</u> Clean with a mild detergent and some solvent if necessary. Rinse thoroughly to remove all stains.		
<b>Mixing Ratio</b>	1 part water : 3 parts adhesive powder (by volume) 1 part water : 4 parts adhesive powder (by weight) Or adjust to a suitable consistency for use.		
<b>Application Method</b>	Use a notched trowel with "V" or "U" shaped notches to enhance the adhesive's bonding strength, spreading the adhesive mortar in a uniform layer approximately 3 to 6 mm thick (the thickness depends on the substrate surface: concrete, cement screeds, or plastered brick walls). Apply the tile or stone onto the spread mortar, tap gently, and adjust its position within 10 – 15 minutes (it is recommended to apply a thin layer of mortar to the back of the tile or stone prior to installation for better coverage).		
<b>Average Coverage</b>	5-10 kg/m <sup>2</sup> (this is a reference based on a 3mm adhesive layer; actual usage depends on the substrate surface and tile size).		
<b>Pot Life</b>	Approximately 1 hour after adding water (at 30°C / 65% humidity).		
<b>Tile Adjustment Time</b>	Within 10-15 minutes after application.		
<b>Waiting Time After Application</b>	<b>Waiting time before grouting:</b> • For walls: after 7 to 8 hours (depending on temperature) • For floors: after 24 hours • For use: after 14 days Wait at least 24 hours before grouting or light foot traffic.		
<b>Storage</b>	Store in a dry, cool place, away from direct sunlight.		
<b>Shelf Life</b>	12 months from the date of manufacture (if the packaging is unopened). Do not stack more than 10 bags, keep at least 20 cm away from walls and floors.		
<b>Packaging</b>	20kg		
<b>Note</b>	Do not add cement or other additives to the product. Do not install stone or tiles outdoors during rainy weather.		
<b>Product Standard</b>	Cement-based Tile Adhesive		<b>Category</b>
<b>Tensile adhesion strength after 28 days</b>	$\geq 0.5 \text{ N/mm}^2$	<b>Adhesion strength after heat aging (28 days)</b>	$\geq 0.5 \text{ N/mm}^2$
<b>Adhesion strength after water immersion (28 days)</b>	$\geq 0.5 \text{ N/mm}^2$	<b>Tensile adhesion strength after open time</b>	$\geq 0.5 \text{ N/mm}^2$ after at least 20 minutes
<b>NOTE</b>	<i>The information provided above applies to the product under specific tested conditions. Since the conditions and situations in which the product is used are beyond our control, for specific guidance, please contact Nippon Paint Customer Support. We reserve the right to revise this technical data sheet without prior notice.</i>		

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