



# NanoBond LA

Latex polymer bonding agent, admixture for concrete & mortar

<b>Description</b>	NanoBond LA is an emulsion styrene polymers butadiene and additions, used as an additive in all cement based materials and used as a bonding agent for cold joints. Used to improve the properties of cement renders, screeds and mortars.
<b>Uses</b>	<ul style="list-style-type: none"> <li>• Patching concrete and repairing mortar.</li> <li>• Bonding agent for cold/construction joints.</li> <li>• Concrete repairs.</li> <li>• Thin section screeds especially for bridge decks, highways, parking decks and industrial floors.</li> <li>• Corrosion protection of steel and silage pit lining and protection.</li> <li>• Tile fixing mortar</li> <li>• Tile grouting mortars on roof slab.</li> </ul>
<b>Features / benefits</b>	<ul style="list-style-type: none"> <li>• Improves the Adhesion of cementing material.</li> <li>• Improves workability.</li> <li>• Improves the bond strength between the cement particles.</li> <li>• Flexural strength improved.</li> <li>• Tensile strength increased.</li> <li>• Water impermeability reduced.</li> <li>• Shrinkage reduced.</li> <li>• Non corrosive to steel.</li> <li>• Increased abrasion resistance.</li> <li>• Increases durability under freeze/thaw effect in bulk concrete.</li> </ul>
<b>Specifications / Compliances</b>	<p>NanoBond LA meets ASTM C 1059- 86, standard specification for latex agents for bonding fresh to hardened concrete, type II.</p> <p>NanoBond LA is classified by the ACI as a non re-emulsifier able bonding admixture.</p>
<b>Properties</b>	<p><b>Appearance</b>            White Liquid</p> <p><b>Density</b>                 1.01 kg/ltr</p> <p><b>PH Value</b>                7-8</p>
<b>Packaging</b>	5 Ltr & 30 Ltr can, 210 Ltr drum.
<b>Storage</b>	Store in a dry and cool place below 35°C. Protect from direct sunlight.
<b>Shelf Life</b>	1 year in original, unopened packaging.
<b>Directions for use</b>	<p><b>Surface preparation for bond coat:</b> The substrate must be free of all oil, grease, existing sealers or other contaminants. All loose material should be removed. The surface should be well soaked with water prior to application of the bonding agent. Do not allow pounded water to remain on substrate.</p> <p><b>Mixing ratio for bond coat:</b> NanoBond LA : Water : Cement = 1 : 1 : 3</p> <p><b>Mixing:</b> The liquid polymer is poured from the plastic container into a plastic or metal drum having a volume of at least 10 liters, then same ratio of water should be poured in container after that cement content poured gradually in to the liquid. Mixing must be continued until lump free slurry is obtained.</p> <p><b>Application for bond coat:</b> Apply the slurry with brush or flooded on the surface. Note: Bond coat slurry should not be dried before application of concrete, mortar and screeding etc. for further information contact the technical staff of Nano Vision.</p> <p><b>As an admixture:</b> NanoBond LA is recommended in construction industry for polymer modified concrete.</p> <p><b>Dosage:</b> 3-4m<sup>2</sup>/ltr (as bonding agent) 1-5% by weight of cement (as an admixture).</p>
<b>Cleaning &amp; disposal</b>	Tools and application equipment should be cleaned with water. Cured material can only be removed mechanically. Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.
<b>Precautions/Limitations</b>	Protect from freezing. Not designed for use on its own as bonding agent, NanoBond LA must be used in a slurry with Portland cement.
<b>Health &amp; safety</b>	In case of contact with the skin, wash immediately with soap and water; In case of contact with the eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately, do not induce vomiting. Skin barrier cream, safety goggles and rubber gloves are recommended. carried out in accordance with local legislation under the guidance of the local waste regulatory authority.