



NanoMortar REP

Epoxy base patching & repairing mortar

Description	NanoMortar REP is a three component fast and permanent patching and repairing epoxy mortar for concrete, particularly where high strength, abrasion and chemical resistance is required.												
Uses	NanoMortar REP may be used as a patching and repairing mortar for many substrates such as concrete, cement mortar and stone. The product can be used to repair or restore profiles or precast or in situ concrete elements. Suitable for abrasion and impact resistance.												
Advantages	<ul style="list-style-type: none"> • Excellent general chemical resistance. • Hard wearing, abrasion resistant. • Joint less repairing eliminates potential sources of failure. • Good gripping surface for traffic. • Suitable for all pedestrian, vehicular and forklift traffic. • High mechanical strength 												
Technical Information	<table border="0"> <tr> <td>Compressive Strength:</td> <td>70 N/mm² (7 days at 20°C)</td> </tr> <tr> <td>Bond Strength to Concrete:</td> <td>Stronger than integral strength of concrete.</td> </tr> <tr> <td>Pot Life:</td> <td>40 minutes at 20°C</td> </tr> <tr> <td>Initial Hardness:</td> <td>24 hours at 20°C</td> </tr> <tr> <td>Full Cure:</td> <td>7 days at 20°C</td> </tr> <tr> <td>Density:</td> <td>2.2 kg/ Ltr (fresh mortar)</td> </tr> </table>	Compressive Strength:	70 N/mm ² (7 days at 20°C)	Bond Strength to Concrete:	Stronger than integral strength of concrete.	Pot Life:	40 minutes at 20°C	Initial Hardness:	24 hours at 20°C	Full Cure:	7 days at 20°C	Density:	2.2 kg/ Ltr (fresh mortar)
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Storage	Store in a dry and cool place below 35°C. Protect from direct sunlight.												
Shelf life	2 years in original, unopened packaging.												
Instructions for use	<p>Surface preparation: All surfaces should be clean, dry, free from oil, grease and chemical contamination. It is recommended that concrete substrates should not have a moisture content of more than 75% RH. This can be assessed using a hair hygrometer covered with polythene for 24 hours as recommended by BS 8203.</p> <p>Priming: NanoPrimer should be used. Mix NanoPrimer in the proportions supplied by adding the entire contents of the hardener tin to the contents of the base tin and thoroughly mix. Once mixed this should be applied to the substrate and rolled or brushed well in. If the NanoPrimer is totally absorbed the substrate should be re-primed. The NanoMortar REP should be applied between 15 minutes to 3 hours after the application of NanoPrimer, while the NanoPrimer is still tacky.</p> <p>Mixing: The NanoMortar REP base and hardener components should be thoroughly mixed in the base container. In cold conditions it will greatly aid mixing if the materials are stored in warm conditions. Once the base and hardener are thoroughly mixed they should be transferred to a suitable forced action mechanical mixer and add the aggregate slowly. Once all the aggregate is added, mix thoroughly for 3 -4 minutes until a homogeneous mix is obtained.</p> <p>Application: Apply the mixed NanoMortar REP to the prepared substrate by wood float, pressing firmly into place to ensure positive adhesion and full compaction. Thoroughly compact the mortar around any exposed reinforcement. In restricted location, or where exposed reinforcing steel is present, application by gloved hands is an acceptable alternative but, in all cases, the product must be finished to a tight surface with a steel trowel. Note: the minimum applied thickness of NanoMortar REP is 5 mm.</p>												
Cleaning & Disposal	NanoMortar REP should be removed from tools, equipment and mixers with NanoSolvent immediately after use. Hardened material can only be removed mechanically. Do not dispose off into water or soil but according to local regulations.												
Precautions/Limitations	Minimum application temperature 5°C. It is recommended that concrete substrates should not have a moisture content of more than 75% RH.												
Health & safety	NanoMortar REP like similar products, are capable of irritating unprotected sensitive skin, we therefore recommend the use of a suitable barrier cream and the wearing of gloves and goggles.												