



NanoFloor Screed

Heavy duty, chemical and abrasion resistant epoxy floor screed

Description	<p>NanoFloor Screed is a high performance, solvent free epoxy screed for application to concrete floors where properties of high strength, abrasion and chemical resistance are required. Suitable for applications within engineering, chemical plants, plating shops, laboratories, loading bays in breweries, dairies etc., and many other various locations.</p> <p>Colours Available Tile Red, Blue, Light Grey, Slate Grey, Mid Grey, Magnolia, Corn, Mushroom and British Racing Green.</p>																				
Primary Applications	<ul style="list-style-type: none"> • Heavy engineering plants and steel works. • Electricity substations. • Oil refineries and plating factories • Ware houses. • Heavy loading areas. • Airport and parking areas. • Car show rooms and mechanical workshops. 																				
Advantages	<ul style="list-style-type: none"> • Excellent general chemical resistance. • Hard wearing, abrasion resistant, durable topping. • Joint less screed eliminates potential sources of failure. • Good gripping surface for traffic. • Suitable for all pedestrian, vehicular and forklift traffic. 																				
Properties	<table> <tr> <td>Compressive Strength:(ASTM C 109:90)</td> <td>85 N/mm²</td> </tr> <tr> <td>Flexural Strength:(BS 6319,Pt3)</td> <td>28N/mm²</td> </tr> <tr> <td>Tensile Strength:(BS 6319, Pt 7)</td> <td>15N/mm²</td> </tr> <tr> <td>Abrasion resistance:(ASTM C 501)</td> <td>0.77g/ 100 Cycles</td> </tr> <tr> <td>Bond strength to concrete:</td> <td>Stronger than integral strength of concrete.</td> </tr> <tr> <td>Pot life:</td> <td>60 mins at 15°C</td> </tr> <tr> <td>Initial hardness:</td> <td>24 hours at 15°C</td> </tr> <tr> <td>Full cure:</td> <td>7 days at 15°C</td> </tr> </table> <p>Nanoprimer</p> <table> <tr> <td>Pot life:</td> <td>60 mins @ 15°C</td> </tr> <tr> <td>Coverage:</td> <td>0.15-0.20 kg/m²</td> </tr> </table> <p>Note: Where chemical resistance is required or where the screed is laid in areas which are frequently underwater, the system should be sealed using NanoCoat SF or NanoCoat SB.</p>	Compressive Strength:(ASTM C 109:90)	85 N/mm ²	Flexural Strength:(BS 6319,Pt3)	28N/mm ²	Tensile Strength:(BS 6319, Pt 7)	15N/mm ²	Abrasion resistance:(ASTM C 501)	0.77g/ 100 Cycles	Bond strength to concrete:	Stronger than integral strength of concrete.	Pot life:	60 mins at 15°C	Initial hardness:	24 hours at 15°C	Full cure:	7 days at 15°C	Pot life:	60 mins @ 15°C	Coverage:	0.15-0.20 kg/m ²
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Technical Support	<p>Technical representatives are available to provide further information and arrange demonstrations.</p>																				
Packaging	15kg pack																				
Storage	Store in a dry and cool place below 35°C. Protect from direct sunlight.																				
Shelf life	24 months if stored properly in original unopened packaging.																				
Instruction for use	<p>Surface preparation: All surfaces should be clean, dry, free from oil, grease and chemical contamination. Concrete surfaces should be free from laitance which should be removed by grit blasting or scarifying. If it is not practical to grit blast or scarify, it is possible to acid etch the floor. However, precautions must be made to prevent the concrete from absorbing excess moisture. 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. Should the strength or the surface stability of the concrete base be in doubt, then we recommend a trial patch of NanoFloor Screed be applied to assess its suitability. On highly polished/ power floated floors, mechanical preparation or acid etching will be necessary.</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 reprimed. The NanoFloor Screed should be applied between 15 minutes and 3 hours after the application of NanoPrimer, while the NanoPrimer is still tacky.</p>																				



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Mixing:

The NanoFloor Screed 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 such as a crete angle the aggregate added slowly. Once all the aggregate is added, mix thoroughly for 3-4 minutes until a homogeneous mix is obtained.

Application:

The floor area can be divided into strips one meter wide with timber laths the thickness of the required screed. The NanoFloor Screed is then laid in strips and worked into previously laid sections and then allowed to harden. The mixed NanoFloor Screed should be raked evenly over the primed surface and be tamped to ensure complete consolidation, then finished with a float kept clean by wiping with a cloth dampened with NanoSolvent. NanoFloor Screed may be carried up the wall to form a coving. Expansion joints in the floor must be maintained and filled with an appropriate joint sealant. In wet areas where NanoFloor Screed is to be subjected to aggressive chemical attack, it is recommended that the surface must be sealed with NanoCoat WB or NanoCoat SB for added protection.

Cleaning & disposal

All tools and equipment should be cleaned immediately after use with NanoSolvent. 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

NanoFloor Screed and NanoPrimer, 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.