

CRYSTAL SCREED

Decorative Epoxy Screed

Description

A solvent free epoxy screed incorporating aggregate in a clear epoxy resin to provide a highly decorative, chemical resistant, hard wearing surface.

Colours Available

Available in a wide range of single or mixed colours dependent on aggregate choice.

Advantages

- Produces a highly decorative finish.
- Provides a non-slip surface.
- Excellent chemical and water resistance.
- Hard wearing, abrasion resistant topping.
- Solvent free.

Chemical Resistance

Performance of Crystal Screed tested by immersion at 20°C against a range of aggressive chemicals.

Acids

Hydrochloric Acid (Conc.)	Fair
Nitric Acid 25%	Good
Sulphuric Acid 50%	Good
Lactic Acid 10%	Good
Acetic Acid 10%	Fair
Citric Acid 20%	Good

Alkalines

Sodium Hydroxide 50%	Good
Ammonia 10%	Good

Solvents

White Spirit	Good
Methylated Spirit	Good
Xylene	Good
Butanol	Good

Oils

Lubricating Oil	Good
Petrol	Good
Skydrol	Good

Aqueous Solutions

Sodium Hypochlorite (Bleach)	Good
Sugar Solution (Saturated)	Good
Salt (Sodium Chloride Saturated)	Good
Ammonium Sulphate (10%)	Good

It should be noted that the ability of Crystal Screed to resist attack is dependent on the temperature and concentration of the chemicals. If in doubt contact Nufins technical department.

Technical Information

Compressive Strength:	70 N/mm ²
Bond Strength to Concrete:	Stronger than integral strength of concrete.
Pot Life:	60 mins @ 20°C
Initial Hardness:	18 hours
Full Cure:	5-7 days
Coverage:	4 M ² per 22.5 kg at 3mm thick.

Surface Preparation

All surfaces should be clean, dry, free from oil, grease and chemical contamination. Oil and grease can be removed using Desolve. 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 with Chemclean. However, precautions must be made to prevent the concrete from absorbing excess moisture.

Concrete substrates must not have a moisture content of more than 75% RH. This can be assessed by 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 Crystal Screed be applied to assess its suitability. On highly polished/power floated floors, mechanical preparation or acid etching will be necessary.

Mixing

The Crystal 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.

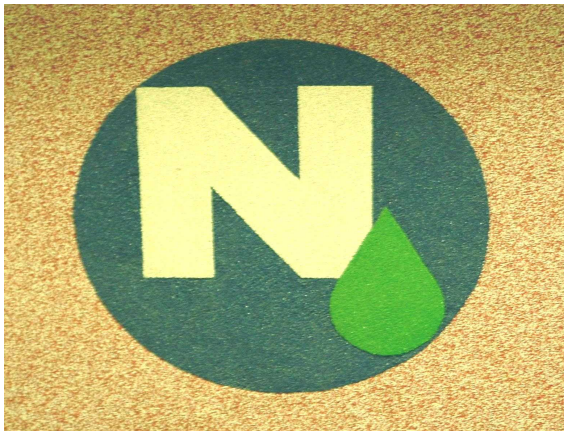
Once the base and hardener are thoroughly mixed they should be transferred to a suitable forced action mechanical mixer such as a Creteangle or Daines and the aggregate added slowly. Once all the aggregate is added, mix thoroughly for 3 - 4 minutes until a homogeneous mix is obtained.

Application Instructions

The mixed Crystal Screed should be spread on to the prepared surface to the required thickness and then finished using a steel float kept clean by wiping with Nuwash.

Expansion joints in the floor must be maintained and filled with an appropriate joint sealant.

All equipment should be cleaned immediately after use with Nuwash cleaner.



Storage

Crystal Screed should be stored at normal room temperature. If stored in cold conditions the containers should be warmed prior to use as this will assist mixing and laying. Crystal Screed should be stored away from foodstuffs and out of the reach of children.

Packaging

Crystal Screed is available in 22.5 kg units.

Health & Safety

Crystal Screed and Nuwash, like similar products, are capable of irritating unprotected sensitive skin, we therefore recommend the use of a suitable barrier cream or gloves.

Limitations

Do not apply below 5°C.

Concrete substrates must not have a moisture content of more than 75% RH. This can be assessed by using a hair hygrometer.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.



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