

Durafloor SLX

Floor topping, industrial, self smoothing epoxy resin system for cold weather application (2-4 mm thickness)

USES

Durafloor SLX is designed for use in a wide range of industrial environments where a lasting solution to floor maintenance problems is required. It provides a dense, impervious, coloured and chemically resistant floor surface which is hygienic and easy to clean. Typical applications include hospital clean rooms, laboratories, food processing plants, film studio floors, prisons, supermarkets and light industrial plants.

ADVANTAGES

- Excellent water staining resistance
- Applied from 2 - 4 mm thickness
- High flow characteristics combined with an attractive self smoothing finish
- Fast application - minimises downtime
- Chemically resistant - good resistance to a wide range of chemicals
- Durable - good abrasion resistance
- Hygienic - provides a dense, impervious, seamless floor surface which is easily cleaned
- Attractive - available in a wide range of colours to enhance the working environment

DESCRIPTION

Durafloor SLX is a self smoothing, solvent free epoxy screed. It is supplied supplied pre-measured, multi-component system ready for on-site mixing.

When laid, it provides a smooth, durable surface. It is available in a wide range of standard colours, and if required, can be overcoated with Durafloor HP to provide anti-slip finishes.

TECHNICAL SUPPORT

Parchem offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.



DESIGN CRITERIA

Durafloor SLX is designed for application at a nominal thickness of 2 - 4 mm. Thickness will generally depend on the impact resistance requirements of the finished floor - thicker floor being capable of withstanding greater impact.

Substrates should be dry and not suffer, or be likely to suffer, from rising damp. Substrates should not have a relative humidity greater than 75% at the time of installation (refer to Limitations section).

PROPERTIES

The values given below are typical figures achieved in laboratory tests at 23°C. Actual values obtained on-site may show minor variations from those quoted.

PHYSICAL PROPERTIES

Compressive strength: 60 MPa

Cure time -

foot traffic:	24 hours
vehicular traffic:	48 hours
chemical:	7 days

CHEMICAL RESISTANCE

Durafloor SLX has excellent resistance at ambient temperatures to a wide range of industrial chemicals.

Note: It is very important that all chemical spills are cleaned up immediately. Leaving chemical spills on the floor may result in higher concentrations of chemicals pooling, causing damage to the durafloor SLX.

MAINTENANCE

The service life of a floor can be considerably extended by good housekeeping. Regular cleaning may be carried out using a rotary scrubbing machine with a water miscible cleaning agent at temperatures up to 50°C (refer to Parchem's "Guide to Industrial Floor Maintenance"). In some applications where long term appearance of the floor is important, clear sealers / polishes may be necessary to protect the epoxy and provide a renewable top coat. Consult Parchem for further advice in these circumstances.

APPLICATION INSTRUCTIONS

PREPARATION

Durafloor SLX should be applied by specialist contractors recognised by Parchem who have been trained in the correct installation procedures. The following steps are involved in the application.

- Thoroughly prepare the floor surface. Correct surface preparation helps to achieve the necessary adhesive bond between the substrate and the new floor. Mechanically scarifying or captive blasting is the normal suggested method
- All existing expansion or movement joints should be followed through the new floor surface

REPAIR

Faults / defects in the base concrete floor will reflect through the Durafloor SLX so it is important to "make good" the concrete before application of the Durafloor SLX. These repair are generally carried out using Nitomortar 903 and fillers or a suitable epoxy fairing mortar

PRIMING

- Apply 1 - 2 coats of Nitomortar 903 and allow to cure. Touch dry between prime coats and 12 - 24 hours prior to the application of Durafloor SLX
- Efficient sealing of the concrete surface is essential to minimise surface defects in the final finish

MIXING

1. Scrape entire contents of the 1.0 kg colour pack (or 2 x 500 g colour packs) into the base component (only use Durafloor Colour Packs).
2. Add the entire contents of the hardener to the base and colour pack mixture and mix for 1 minute using a slow speed mixer fitted with a large spiral type mixing attachment.
3. After 1 minute mixing, slowly add one bag of the Durafloor SLX fillers.
4. Continue mixing entire mix for a minimum of 3 minutes at 350 - 500 rpm once all components have been added.

Note: Mix in an efficient manner to ensure no colour pigment streaking is visible and scrape the side walls of the mixing vessel with a long bladed spatula to dislodge any unmixed material.

PLACING

- Apply the Durafloor SLX topping. The material is poured on to the primed surface and spread with a steel trowel to achieve a 2 - 4 mm seamless topping
- Using a spiked roller, remove air entrainment and allow to cure
- Install the most appropriate Parchem joint sealant. This will depend on the anticipated movement accommodation factor and the end use of the new floor. For further advice, consult your local Parchem sales office

Installation times will vary according to site conditions and the size of the area involved.

If a slip-resistant finish is required this can be achieved by application of Durafloor HP incorporating suitable anti-slip aggregates. Refer to the Durafloor HP Technical Data Sheet.

CLEANING

Durafloor SLX and associated primer should be removed from tools and equipment with Solvent 10 immediately after use. Hardened material can only be removed mechanically.

LIMITATIONS

Durafloor SLX should not be applied on to surfaces known to or likely to suffer from rising damp conditions or have a relative humidity greater than 75%. Suspect concrete floor should be checked using a Hygometer to check the moisture level before proceeding.

Durafloor SLX is not a 'floor levelling' product and will follow the contours of the sub-floor. If the floor requires levelling, consult your local Parchem sales office for further advice.

In certain conditions a light oily film may appear on the surface of the floor during curing. Where overcoating is to occur, remove this film by solvent wiping or cleaning with a recognised reactivating solution. This film can also be removed once the Durafloor SLX is fully cure by cleaning the surface with a mild detergent in water.

Durafloor SLX does not produce a 'mirror finish'. Some imperfections in the finish are always present. Durafloor SLX is not resistant to scratching and marking from mechanical damage and abrasion.

Durafloor SLX is designed as a rapid installation, seamless floor. Some floor areas, especially the darker coloured Durafloor SLX, may show slight 'dimpling'. This is common and should be expected. It has no effect on the end flooring project being seamless and hygienic.

In areas where significant thermal shock is likely to occur, consult your local Parchem sales office.

Durafloor SLX should not be applied to asphalt, weak or friable concrete, unmodified sand cement screeds, PVC tiles or sheet or substrates known to move substantially e.g. steel walkways. For information on other substrates, consult your local Parchem sales office.

Durafloor SLX should be applied only when the substrate temperature and the ambient temperature is above 10°C.

Durafloor SLX is not UV stable - discolouration may occur even in internal environments including exposure through windows.

ESTIMATING

SUPPLY

Durafloor SLX is supplied in packs containing pre-weighed components consisting of base, hardener, colour pack and fillers which, when combined produce 16 litres of mixed product.

Nitomortar 903:	6 and 30 litre packs
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Solvent 10:	4 and 20 litre drums
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COVERAGE

Durafloor SLX:	16 litre pack (8 m ² @ 2 mm thickness / 4 m ² @ 4 mm thickness)
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Nitomortar 903:	5 m ² /litre
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The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced. Typically, an additional 10% should be allowed for surface irregularities and wastage although this will vary with site conditions.

SPECIFICATION CLAUSE

FLOW-APPLIED EPOXY FLOORTOPPINGS

The designated floor areas shall be surfaced with Durafloor SLX, a 2-4 mm thick flow applied epoxy resin floor topping. The topping shall achieve a compressive strength of 60 MPa at 7 days. At 23°C, it shall be capable of accepting foot traffic at 24 hours and vehicular traffic at 48 hours.

STORAGE

SHELF LIFE

All products have a shelf life of 36 months if kept in a dry store in the original, unopened packs.

STORAGE CONDITIONS

Store in dry conditions between 5°C and 30°C, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures the shelf life may be reduced.

ADDITIONAL INFORMATION

Parchem provides a wide range of complementary products which include:

- concrete repair – cementitious and epoxy
- grouts and anchors – cementitious and epoxy
- waterproofing membranes – liquid applied, cementitious and bituminous sheet membranes
- waterstops – pvc and swellable
- joint sealants – building, civil and chemical resistant
- industrial flooring systems – cementitious and epoxy
- architectural coatings
- filler boards – swellable cork, bituminous and backing rod
- ancillary products

For further information on any of the above, please consult with your local Parchem sales office.

IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

PRODUCT DISCLAIMER

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.