

### Solvent-free, epoxy protective coating for floors

#### About this product

hd. Durakote SF is a high quality low viscosity two component solvent free epoxy coating for application to new and existing concrete floors. It provides a smooth, easily cleaned surface which is resistant to dirt, moisture, oil and many aggressive chemical environments. It has proved very effective for applications in garages, workshops, light industrial factories, hospitals and schools by facilitating cleaning, maintenance of work areas and extending the life of floors.

#### Benefits and features

- Excellent coverage rates.
- Gives excellent protection against oil and chemical spillage.
- Easy to apply and free from evaporating solvents.
- Saves money on maintenance and extends the service life of concrete floors.
- Excellent abrasion resistance.

#### Typical properties

All tests carried out at 20°C.

Tensile strength (BS6319:pt 7)	22N/mm <sup>2</sup>
Flexural strength (BS6319:pt 3)	60N/mm <sup>2</sup>
Flexural modulus	1200N/mm <sup>2</sup>
Adhesion to good quality floor screed	6.5N/mm <sup>2</sup>
Adhesion to good quality concrete (concrete failure)	2.8N/mm <sup>2</sup>
Abrasion Taber, 200 cycles, wt. loss	20mg
Thickness (2 coats), approx.	200um

#### Chemical resistance

Hydrochloric Acid	30%	Excellent
Sulphuric Acid	30%	Excellent
Sodium Hydroxide	30%	Excellent
Ammonia Solution	30%	Good
Citric Acid	30%	Excellent
Lactic Acid	30%	Good
Sugar Solution	50%	Excellent
Industrial Methylated Spirit		Good
Toluene		Fair
Petrol		Excellent
Engine Oil		Excellent

There was no discolouration of any specimens during chemical tests.

The excellent chemical resistance of cured hd. Durakote SF means it can be used for many applications in those industries where corrosive chemical attack is a problem. The material is resistant to a wide range of chemicals including mineral and organic acids, alkalis, oil and petroleum. It is therefore particularly suitable for use in corrosive environments where conventional cementitious material cannot be used.

#### Preparation

Surfaces should be smooth, but not shiny, and free of all dirt and contamination. Any oil present must first be removed by steam cleaning, using a detergent, followed by the removal of all liquid from the surface. The areas must be allowed to dry out thoroughly, preferably without the use of heat, but with good ventilation. Any spalled or damaged areas must first be repaired and brought level using a suitable repair compound, such as Mulsifix Repair Mortar. New concrete should be at least 28 days old before application and all traces of laitance, shutter release or curing membranes removed.

#### Mixing

hd. Durakote SF is supplied as a two part system comprising resin and hardener which need to be thoroughly mixed together in the proportions supplied immediately prior to application. Mixing should be carried out using a slow speed stirrer or electric drill attachment.

Transfer to a shallow tray immediately after mixing will help to dissipate heat and give a longer working time.

## hd. Durakote SF

#### Pot life

Temperature	Pot life	Thin film cure
-5°C	240 min	24 hrs
10°C	75 min	12 hrs
20°C	40 min	5 hrs

#### Application

The coating is applied by pouring onto small areas at a time, then spreading with a suitable brush or good quality foam-backed roller to achieve a smooth, even finish. If applied to the floor immediately after mixing, it will take about 5 hours to set. Depending on temperature, the coating must be allowed to cure for up to 24 hours before applying a second coat in the same manner. If a non-slip finish is desired, a thin dusting of dry sand or grit may be sprinkled between coats. A further 24 hours should be allowed before permitting traffic. Maximum intercoat time 24 hours.

When cured, the hd. Durakote SF is not affected by water and frost. Consequently it can be used on surfaces which will ultimately be continually immersed in water.

N.B. Areas to be coated should be in a dust-free environment.

#### Cleaning

Brushes and tools should be cleaned immediately after use with solvent.

#### Packaging and coverage

hd. Durakote SF is available in a 5kg pack, comprises a coloured resin and hardener.

Coverage is approximately 10m<sup>2</sup> per 5kg pack when applied in 2 coats on smooth concrete.

#### Colours

hd. Durakote SF is available in grey, red and green. Other colours will be produced on request for large orders. Contact our Sales Department for further information.

#### Shelf life and storage

Store in cool, dry conditions between 5°C and 25°C. Shelf life in correct storage conditions is at least 12 months.

#### Health and safety

Handle only in well ventilated areas and avoid contact with skin and eyes by wearing rubber gloves and goggles.

For further details on safe handling, please refer to the Product

#### Quality assurance

A policy of strict quality control has always been followed and the requirements of all relevant test standards are strictly adhered.

#### Technical service and representation

We can provide technical service at the specification stage and/or during application through our Technical Department or Laboratory. Detail specification or further information can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.