

## DUPOXY SC 206

**2 - 6 mm thick high strength, abrasion and impact resistant epoxy resin tough screed**

### Description

**Dubond's Dupoxy SC 206** is a three- part solvent free combination of epoxy resin, modified amine hardners filled with specially graded and selected high crushing strength, heavy density aggregates.

Dupoxy sc 206 durable abrasion resistant screed is laid by 2mm thickness (minimum thickness to be recommended should be 2mm).

The system includes Dupoxy prime SFW & SFD, two part primer. Dupoxy SC 206 screed and Dupoxy prime SFW & SFD primer are supplied in pre weighed units ready for on site mixing and application. The finished, cured floor has a slightly granular texture of uniform colour. A two part epoxy sealing coat from Dupoxy coating TCS 100 & TC 100 is recommended as a topcoat for Dupoxy SC 206.

Before application on a steel substrate, shot blasting must first be done to SA 2½ finish and then priming should be done with Dupoxy prime NFS.

### Advantages

- Durable - Exceptional Resistance to heavy duty traffic.
- Seamless - Eliminates potential sources of failure.
- Nonslip - Good gripping surface to both vehicular and pedestrian traffic.
- Easily Laid - Designed for easy laying to a fair finish.
- Colour range - Available in different colour combinations.

### Uses

Dupoxy SC 206 provides an extremely high strength floor topping with exceptional resistance to surface mechanical wear and attack from chemical spillage. The trowelled screed has a safe nonslip finish.

Dupoxy SC 206 is ideally suited for heavy engineering industry, paper and pulp industry, steelworks, breweries, automobile industry, tyre manufacturing industry, warehouses, trucking lanes, loading bays etc.

### Technical Support

Dobond provides a technical advisory service supported by a term of specialists in the field.

### Properties

Curing Characteristics	@ 30°C
Colour	Grey
Pot Life	30 - 50 minutes
Initial Hardness	10 - 12 hours
Full Cure	5 - 7 days
Specific Gravity	2.7 g / cc

## Mechanical Characteristics

Property	Test Method	Dupoxy SC 206
Compressive Strength	BS 6319 Pt 2	@ 1d - 90 N / mm <sup>2</sup> @ 7d - 110 N / mm <sup>2</sup>
Flexural Strength	BS 6319 Pt 3	40 N / mm <sup>2</sup>
Tensile Strength	BS 6319 Pt 7	20 N / mm <sup>2</sup>
Abrasion resistance (Average loss in thickness)	IS 9162-1979	0.24 mm
Notched Izod	ASTM D 256	34 J / m impact strength

## Dupoxy Prime SFW & SFD

Pot Life	30 min @ 30°C
Max. overlay time	30 min @ 30°C

All the above properties have been determined by laboratory controlled tests and are typical of those expected in practice.

## Specification Clause

Moisture barriers between the RCC floor and the PCC are recommended.

The moisture content of concrete floors should be less than

5%. Laitance, deposits on new concrete floors are best removed by light grit-blasting, mechanical scrubbing or grinding. On smaller areas thorough acid etching using Reebak lens, a multipurpose cleaning agent, may be considered. After etching, the floor should be thoroughly washed with clean water and shall then be allowed to dry.

## Application Instructions

### Surface Preparation

It is essential that Dupoxy SC 206 is applied to sound, clean and dry surfaces in order that maximum bond strength is achieved between the substrate and the flooring system.

### New Concrete Floors

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### Old Concrete Floors

Mechanical cleaning methods are strongly recommended on old concrete floors particularly where heavy contamination by oil and grease have occurred or existing coatings are present. This may well have been absorbed several mm. into the concrete. To ensure adhesion, all contamination should be removed.

All dust and debris should be removed prior to Dupoxy Prime SFW & SFD priming.

### Steel Surfaces

Steel surfaces should be degreased and sand blasted to expose original metal surface prior to application.

### Priming

All concrete surfaces to be treated with Dupoxy SC 206 shall be primed with Dupoxy Prime SFD & SFW primer, designed for maximum absorption and adhesion to substrates. All steel surfaces shall be primed with solvent based Dupoxy prime NFS primer. The entire contents of the hardener tin shall be emptied to the base tin and shall be mixed thoroughly using a slow speed heavy duty drill fitted with a paddle. Once mixed, the primer shall be applied immediately in a thin continuous film to the clean prepared surfaces using stiff brushes. Over application and puddling shall be avoided. On porous floors the Dupoxy Prime SFD & SFW primer, will be absorbed very quickly leaving characteristic light coloured dry patches. It is recommended that a second priming coat be then applied.

The solvent in the Dupoxy Prime SFD & SFW / Dupoxy prime NFS primer shall be allowed to evaporate, till the primer has become tacky. This time is dependent on climatic conditions.

### Mixing

A suitable forced action mixer such as a paddle fitted into a heavy duty, slow speed, electric hand drill and a similar equipment, is recommended for mixing.

The entire contents of hardener tin should be poured into the base container and mixed thoroughly until homogeneous.

It is recommended that the aggregates in the bag are blended well before adding to the mixed resin and hardener. The aggregates shall be added slowly to the mixed resin and hardener and mechanical mixing shall be continued for a further 2-3 minutes, until all the components are thoroughly blended. Once mixed, the materials must be used within the specified pot life (see under 'Properties'). After this time, unused materials will have stiffened and should be discarded.

### Application

The mixed Dupoxy SC 206 should be spread to uniform thickness on the primed surface using a steel trowel. Screeding rods are useful to maintain a minimum compacted thickness. The material should be tamped with a steel float to ensure complete compaction. The use of a power float for final finishing/completion will ensure that smooth even textured surface is obtained.

### Expansion Joints

Dupoxy SC 206 should not be taken across expansion joints.

### Sealing

Although Dupoxy SC 206 is impervious, in constantly wet operation areas, or where a high degree of cleanliness is required, Dupoxy SC 206 may be sealed with Dupoxy floor range of coatings. For this, Dupoxy SC 206 must be at least 1 day old and high spots such as cold joints and trowel marks rubbed down.

### Sealing

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

### Packing and Coverage

Property	Pack Size	Approximate Coverage Pack
Dupoxy Prime SFD & SFW	1 & 5 Ltr.	6 - 8 m <sup>2</sup> per Ltr.
Dupoxy SC 206 Thickness	8 kg.	1.6 m <sup>2</sup> pack at 5mm

The above coverage rates are given for guidance only as actual quantities used will vary with surfaces conditions of the substrate

### Storage

Dupoxy Prime SFW & SFD and Dupoxy SC 206 have a shelf life of 12 months when stored in a dry place below 35°C in unopened containers.

## ■ Health & Safety

Some people are sensitive to epoxy resins and solvents. So, gloves, barrier creams, protective clothing and eye goggles should be worn when handling the resin products. If accidental contact occurs, the resin should be removed before it hardens with resin removal cream followed by washing with soap and water. Solvent should not be used. Should eye contamination occur washing with plenty of clean water should be commenced and medical attention should be sought immediately. Good ventilation should be ensured. Smoking while handling/application is prohibited.

## ■ Fire

Dupoxy Prime SFD & SFW and Dupoxy Thinner solvent are flammable. Adequate ventilation should be ensured. Smoking or use near a naked flame is prohibited.

## ■ Flash Points

Dupoxy Prime SFD & SFW	:	25°C
Dupoxy Thinner	:	33°C
Dupoxy SC 206 Hardener	:	50°C



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