

# Bituproof 12

General purpose fiber reinforced rubberized bitumen emulsion (Formerly known as Setcrete 12)



## Description

Bituproof 12 is a dark brown emulsified bitumen liquid reinforced with rubber, formulated from selected raw materials to form a high build elastomeric water proof and protective coating for concrete and masonry.

## Applications

Bituproof 12 provides a water proofing and protective coating for:

- ▲ Retaining walls.
- ▲ Shaded or tiled roofs.
- ▲ Under ground concrete foundations.
- ▲ Wet floor areas such as bathrooms and kitchens.
- ▲ Where minor live cracks may occur in concrete substrates, Bituproof 12 will bridge such minor cracks.
- ▲ Basement walls.
- ▲ Concrete slabs.

## Advantages

- ▲ Elastomeric will bridge minor cracks which may occur in concrete substrates.
- ▲ Resists attack by chloride and sulphate ions present in ground water.
- ▲ Single component.
- ▲ Easily applied by brush, roller, broom or squeegee.
- ▲ Economical.
- ▲ Solvent free, non flammable.
- ▲ Asbestos free.
- ▲ Rot resistant.

## Standards

- ▲ Bituproof 12 complies with ASTM D1227 Type II, Class 1.
- ▲ Bituproof 12 complies with ASTM C309 as a curing compound when applied with two coats at a rate of 4 m<sup>2</sup>/litre per coat.

## Technical Properties @ 25°C:

Form:	Thixotropic liquid
Residue by evaporation: ASTM D2939	≥ 52%
Ash content of residue: ASTM D2939	≤ 25%
Water content: ASTM D2939	≤ 55%
Firm set: ASTM D2939	≤ 24 hr
Over coating time:	3 hr @ 25°C 2 hr @ 35°C
Application temperature:	5 to 45°C
Density:	1 ± 0.05 gm/ cm <sup>3</sup>
Drying time: (for thickness < 0.4 mm)	2 - 3 hr @ 25°C 1 - 2 hr @ 35°C
Service temperature:	-20 to 60°C
Bitumen content: ASTM D4	65 ± 2%
Chemical resistance:	Resists to all water based salts, mild alkaline and acid solutions, detergents and most common aqueous minerals
Tensile strength: ASTM D412, Die C	0.2 MPa
VOC:	< 40 gr/ ltr.

*Note: Drying time is affected by applied thickness, temperature of substrate and wind conditions*

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## Method of Use

### Surface Preparation

Surface preparation is very important to get the highest performance of Bituproof 12. Any surface to be coated must be clean, sound and free of oil or grease.

Any oil or grease contamination should be removed with a chemical degreaser. All holes should be filled with a suitable cementitious mortar before application of Bituproof 12.

### Primer Coat

There is generally no need for primer coat. Dusty surfaces should be primed with a coat of Bituproof 12, diluted with an equal quantity of cool, clean water and allowed to dry.

### Application

It is recommended that two coats of Bituproof 12 be applied. The second coat should be applied at a right angle to the first coat. Allow a minimum of 3 hours between coats. Stir well before use. Bituproof 12 may be applied by brush, roller, broom or squeegee.

### Cleaning

Tools and equipment can be cleaned with water when still wet. Dried Bituproof 12 may be removed with DCP Solvent.

### Packaging

Bituproof 12 is available in 18 and 200 litres drums.

## Coverage

Coverage rate depends on surface roughness and the method of application.

- ▲ 3 - 5 m<sup>2</sup>/litre per coat, as protective coating.
- ▲ 1 - 1.5 m<sup>2</sup>/litre per coat, as waterproof coating giving a dry film thickness of 350 - 500 microns per coat. Two coats recommended.

## Storage

Store away from direct sunlight, and protect from freezing.

## Shelf Life

Bituproof 12 has a shelf life of 12 months if stored in proper conditions.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

### Health and Safety

As with all bituminous products, care should be taken during use and storage to avoid contact with skin, eyes and mouth. Wear suitable protective clothing, gloves and eye/face protection.

Should accidental skin contact occur, remove immediately with plenty of clean water. If swallowed, seek medical attention immediately - do not induce vomiting.

For further information refer to the Material Safety Data sheet.

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## Fire

Bituproof 12 is non-flammable.  
DCP Solvent is flammable. Ensure adequate ventilation.  
Do not use near a naked flame and do not smoke during use.

*Flash Point:*

DCP Solvent: 37°C.

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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

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**Note:**

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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