

# Debobase 3.5 mm Special

## Basic Uses:

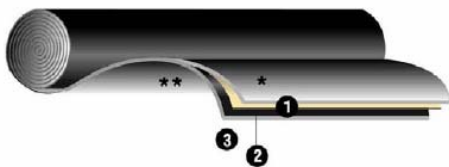
For waterproofing of underground structures and screed protected areas in construction. Especially designed to resist underground soil settlement in basement, tunnels, underpasses and retaining wall construction.

## System:

Pre-formed torch-on membrane manufactured in the De Boer ISO 9001 controlled factory in Belgium. The system is applicable on moist and dusty areas. After installation the system is not dependent on the weak lean concrete tidy slab, or compacted fill, but remains integral with the main concrete slab.

## Composition:

**DeboBase 3.5 CS/F Special** is a flexible waterproof membrane consisting of a special mixture of elastomer modified oxidised bitumen, and reinforced with a layer of non-woven polyester of min. 180 g/m<sup>2</sup>. The upper surface is finished with 1 to 2 mm treated aggregate. The under surface is finished with a polyethylene foil of 12 micron thickness. This membrane can be applied by torch, or loose-laid with torch-welded joints.



- \* Upper finishing: talcum sand
- 1. Upper coating in SBS modified bitumen
- 2. Reinforcement consisting of non-woven polyester min. 180 g/m<sup>2</sup>
- 3. Under coating in SBS modified bitumen
- \*\* Under finishing: polyethylene foil

## Packaging:

1m x 10m roll.

Number of rolls on 1 pallet: 20 rolls

## Advantages:

- Hi-tech quality waterproofing membrane especially designed for underground waterproofing purposes.
- The system adheres 100% to cement screed and concrete.
- **DeboBase 3.5 CS/F Special** system resists underground soil settlement.
- Fast to install.
- The system can be installed on a moist and/or dusty surface.
- Guaranteed thickness of 3.5 mm.
- Maybe installed by torch, loose-laid and mechanically fastened.

## Surface Preparation:

- The working area needs to be free of standing or flowing water and mud.
- Lean concrete has to be sound and stable and is extended by 300mm out of the actual structure.
- The surface needs to be free of oil and grease.
- Co-ordination with specialist applicator concerning piles and pile-caps is important.

## Finished Product:

		Average Values
Breaking load NBN 46-201	(N/5 cm)	≥900 (Long) ≥700 (Trans.)
Ultimate elongation NBN B 46-201 (%)		40(L.) 28(T.)
Heat test	°C (ASTM D638-91)	No sagging after 2 hours at 80°C
Bending test	°C (UEAtc)	No breaking at 3°
Peel strength	N (ASTM D4545-86)	830
Puncture strength	N (ASTM D4833-88)	720
Thickness	mm (UEAtc)	+/- 3.5 mm
Roll weight	kg (UEAtc)	+/- 45 kg

## Method Statement:

### Debobase 3.5 CS/F Special System

The site concrete is cleaned by brush or air compressor. Pile-edges are finished using a non-shrink mortar. The vertical areas and corners of beams, piles and pile-caps, receive a Duo Bitumen Primer. All corners (internal and external) are reinforced with a complementary strip of **DeboVix 3mm** sand finished membrane.

The **DeboBase 3.5 Special** membrane is loose-laid on the site concrete or prepared sand/fill surface and all overlaps are welded by torch. The membrane is torched fully bonded at all vertical parts and corners. The membrane will lay outside the actual structure. The outside wall is primed with Duo Primer. A strip of **DeboVix 3mm** sand-finished membrane is torched at the connection between site concrete and external wall. Here the horizontal and external application of the **DeboBase 3.5 Special** starts. The membrane is torched fully bonded against the wall.

**Health And Safety:**

**Duo Bitumen Primer** is solvent based and must be used with adequate ventilation. Remove all naked flames and sources of ignition. Adequate ventilation is required to minimise exposure to bitumen fumes during the torching process. Material Safety Data Sheet (MSDS) must be read and understood prior to use of product.

**Storage:**

Store rolls in a dry place always in upright position.

**DeboBase 3.5 Special Product Range:**

**DUO Primer** - Solvent based bitumen primer to prepare the concrete surface.

**DebobVix 3 mm T/F** - Reinforced membrane to provide extra safety strips at corners.

**DeboBase 3.5 mm Special** - Special granulated sheet membrane to adhere to the main concrete slab.

**Approval:**

**Equus Industries Ltd**  
PO Box 601  
Blenheim  
Phone: 03 578 0214 Fax 03 578 0919  
Email: admin@equus.co.nz

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