

*The Tough, Durable, Multi - Usage Seamless Liquid Membrane*

### TWO PART POLYURETHANE

#### PRODUCT DESCRIPTION

**Duraroof** (Grade AD451/BII) is a two-component polyurethane liquid membrane. It self-cures to form a seamless, impermeable elastomeric membrane which bonds tightly to various substrates, preventing the lateral transfer of water.

**Duraroof** is easily mixed at the job site and applied using a brush/roller, squeegee, trowel, or spray equipment, providing a tough, durable and waterproof rubber membrane without the need of overlaps, splices and terminations.

#### TYPICAL APPLICATIONS

##### ■ BUILDING INDUSTRY

##### ■ ROOFING

Duraroof creates a totally waterproof, seamless and well-adhered membrane over:

- Plywood
- Metal
- Reinforced Concrete
- Cement/Sand Screeds
- Sprayed Foam Insulation
- Insulation Boards
- Built-up Roofing
- Vents, Ventilators, etc

##### • WATERPROOFING

- Bathrooms & Toilets
- Kitchens
- Utility and Mechanical Floors
- Foundations
- Basement Walls
- Floor Slabs
- Concrete Piling
- Water Tanks
- Swimming Pools
- Fountains
- Promenades, Piazzas, Bridge & Parking Decks
- Silos



##### • ADVANTAGES

- Rapid Application - once the two components are mixed together, the product can then be either squeegee, spray or hand/roller brush applied for the Horizontal area, or hand/roller brush or trowel applied for the Vertical area, to the desired thickness.
- Rapid Curing - Within hours, thus making the surface serviceable.
- Non-cracking or crazing
- Seamless - No on-site seaming or overlaps required, thus low maintenance.
- Labour and cost saving

»»»

# DURAROOF<sup>®</sup> FLUID MEMBRANE AD451/BII

- High solid Contents - More than 90% Solids composition
- Easy Repair - If a cured membrane is damaged by traffic, tools, etc, it is easily repaired by spot application after recommended preparatory work
- Multi-usage - Versatile application
- UV Stability - Good stability to ultra violet rays
- Thermal Stability - Remains flexible under severe temperature conditions
- Abrasion resistant

## Mixing and Application:

Accurately mix Part B with Part A and stir thoroughly, applying directly to the substrate.

## APPLICATION

### SURFACE PREPARATION

All surfaces should be clean and dry and free from dust, dirt, loose material and algae.

### Priming:

Substrates of metal must be primed with Durarroof Primer at the rate of 5/8m<sup>2</sup>/lit.

Do not prime new sand/cement screed or concrete surfaces.

### Laying:

Do not apply in temperatures below 5°C.

Pipe penetrations are recommended to be reinforced with polyester scrim bedded into one coat of Durarroof membrane.

Durarroof is recommended to be applied in two coats to provide a total dry film thickness of 1.2mm.

## TYPICAL PHYSICAL PROPERTIES

| Property                      | Unit               | Test Method | Typical Values |
|-------------------------------|--------------------|-------------|----------------|
| Tensile Strength              | N/mm <sup>2</sup>  | ASTM D 412  | >1.40          |
| Elongation at Break           | %                  | ASTM D 412  | >450           |
| Tear Strength                 | N/mm               | ASTM D 624  | >14            |
| Hardness (Shore A)            | -                  | -           | >40            |
| Water Vapour Transmission     | g/h/m <sup>2</sup> | ASTM E 96   | 0.4            |
| Adhesion to Concrete          | N/mm <sup>2</sup>  | Elcometer   | >1.0           |
| Recovery from 100% elongation | %                  | ASTM D 412  | >90            |

*\* values advertised are subject to ±10% tolerance*

## UNIROOF<sup>®</sup> International Limited

Worth Corner, Turners Hill Road, Pound Hill, Crawley, West Sussex RH10 7SL. England.

Tel: +44 (0)1293 889888 E-mail: [waterproofing@uniroof.com](mailto:waterproofing@uniroof.com) Web Site: [www.uniroof.com](http://www.uniroof.com)