



# PRODUCT DATA SHEET

# DURAM 195

## DESCRIPTION

DURAM 195 is a premium quality, high performance, moisture curing, elastomeric, liquid applied polyurethane waterproofing membrane which cures to form a tough, flexible, seamless rubber membrane with excellent resistance to ageing and weathering (UV resistance).

## SUBSTRATES

DURAM 195 bonds to most building materials including concrete, masonry, brick, fibre cement board, plywood, timber and metal (including rusted metal). DURAM 195 does not break down in permanent immersion in water or salt water, and withstands structural and thermal movement and hydrostatic pressure.

## BENEFITS

- Elastic
- Strong
- Self flashing, bonds to penetrating outlets, support columns and walls
- Chemically resistant to a wide range of dilute acids, solvents and alkalines
- UV stable - long lasting
- Single pot system
- Bonds and conforms to shapes that sheet membranes cannot
- Rain resistant in approximately 8 hours

## PRINCIPAL USES

DURAM 195 is a versatile UV stable waterproofing membrane for

- Roofs
- Balconies & decks
- Showers & bathrooms
- Wet areas
- Tanks
- Troughs
- Exterior basement walls
- Retaining walls
- Gutters and flashings
- Rusted gutters
- Lead flashings (suitable for over coating)
- Parapet walls
- Planter boxes
- Damp-proof foundations and sandwich slabs above and below ground
- Tanking membranes for exterior wet areas either below the mortar bed or prior to exterior tiling

To see 'Uses and Applications' watch the Duram 195 video on the Duram website.

N.B. Confirmation of suitability should be sought from Duram Industries NZ Ltd regarding individual projects.

## INSTRUCTIONS FOR USE

Preparation: Surfaces must be clean, dry, sound, free from oils, waxes, anti-rust treatments, loose matter and other contaminants which can affect adhesion and the life of the product. All cracks, holes, sharp and protrusions must be repaired and smoothed before coating. Use only materials which do not affect adhesion of DURAM 195. Concrete surfaces containing holes should be bagged with 4.1 sand and cement slurry and smoothed. For rusty surfaces apply directly to the clean rusty surface.

## PREPARING JOINTS

Expansion and construction joints, corners, large cracks and penetrations: cover joints with DURAM BOND BREAKER TAPE and then apply a 150mm wide coat of DURAM 195 over the tape. Into this coat, bed the 100mm wide DURASCRIM reinforcing fabric. Apply a saturation coat immediately ensuring the fabric is completely flooded - all air bubbles must be worked out. Refer to Duram 'Joint Detail and Instruction' diagram sheets.

## APPLICATION

Provide good ventilation, wear protective clothing, goggles and gloves. Apply DURAM 195 by brush, broom or airless spray.

**For Horizontal Surfaces:** (e.g. decks, roofs etc). After first taping and reinforcing all joints (see 'Preparing Joints' or using the 'Fully Reinforced System'). Mark the area to be covered into squares of one metre by one metre. Using a measuring jug, measure out the correct quantity per square metre per coat of DURAM 195 (see 'Coverage') and decant on to the marked square. Spread the DURAM 195 uniformly within that square. Move on to the next square and repeat the above process until the whole area to be covered is complete. Repeat the same process for the second coat.

**For Un-reinforced Areas:** A two coat system is usually sufficient, with the second coat applied at right angles to the first coat.

## For Fully Reinforced Areas:

Where random cracking in concrete may occur, use one metre wide DURASCRIM reinforcing fabric over the total area.

Embed DURASCRIM into the first wet coat and work in with a fluted metal roller or brush. Apply a saturation coat immediately ensuring the fabric is completely flooded. Overlap joins by 50mm. Do not stretch or wrinkle the fabric. Bubbles must be worked out. Apply a further two coats of DURAM 195 as per application instructions.

Care must be taken not to damage the Duram membrane during and after application.

**Priming:** For porous and or dusty surfaces mix a prime coat of one part DURAM SOLVENT to one part DURAM 195. Mix well and apply with brush or broom.

## Repairing and Overcoating Butyl Rubber Membranes:

1. Thoroughly clean the butyl membrane with fresh water to remove contaminants – do not use additives e.g. detergents etc as these could leave residues that may affect the adhesion of the DURAM PRIMESEAL. Allow to dry.
2. Glue down all loose laps etc.
3. Prime the surface of the butyl with DURAM PRIMESEAL as per the DURAM PRIMESEAL application instructions and allow to dry.
4. Apply DURASCRIM as required to laps, splits, cracks etc as per the DURAM 195 'Instructions for Use'. Do not use BOND BREAKER TAPE under the DURASCRIM.
5. Finally follow the DURAM 195 application instructions contained in this product data sheet.

## Repairing Existing Bituminous Membranes:

If unable to remove the membrane and provided it is properly bonded to the substrate. Fill all cracks, holes etc with a suitable bituminous filler (e.g. DURAM BITUSEAL). When dry apply DURAM PRIMESEAL, as per the product data sheet, over the total surface and when dry, coat with DURAM 195 as per 'Application Instructions'

contained in this product data sheet.

**For Damp Concrete Surfaces:**

Apply one or more coats of DURAM PRIMESEAL as per instructions, and when dry, coat with DURAM 195 as per instructions.

**For New Galvanised Iron:** Acid etch with a 5% diluted phosphoric acid solution, flush with fresh water, let dry and coat with DURAM 195 as per this product data sheet'.

**COVERAGE**

**Un-reinforced:** A minimum of two coats at the rate of 0.5ltrs to 0.75ltr per square metre per coat.

**Reinforced:** A minimum of three coats at the rate of 0.75ltrs to 1.00ltrs per square metre per coat. Coverage may vary depending upon type and porosity of substrate.

**Important:** Apply DURAM 195 at the recommended coverage rate to ensure correct membrane thickness. The minimum dry film thickness must be at least 1mm. DURAM 195 must be applied in a minimum of two coats with application approximately 24 hours apart. If the period exceeds 24 hours then the first coat must be solvent wiped using DURAM SOLVENT after first ensuring that any contaminants have been removed prior to applying the second or subsequent coats.

**ADDITIONAL INFORMATION**

**Backfilling:** Protect DURAM 195 against damage with 18mm styrofoam sheets or rigid boards.

**Painting:** When painting over DURAM 195 the following procedure must be followed. Allow DURAM 195 to cure for at least 7 days. Prime the cured Duram 195 with Duram Primeseal and allow to dry. Paint using only DURAM AZCOFLEX or acrylic paints. Do not overcoat DURAM 195 with solvent or oil based paints.

**Foot Traffic Areas:** Protect DURAM 195 with a suitable topping e.g. tiles, artificial grass, concrete, wooden battens etc. DO NOT FASTEN THROUGH THE DURAM MEMBRANE.

**Limitations:** Do not apply DURAM 195 if the ambient temperature is above 35 degrees C or below 10 degrees C. DURAM 195 is not suitable for fish ponds or for tanks etc for drinking water. DURAM 195 should not be applied if rain is imminent.

DURAM 195 is not suitable as a trafficable membrane. Duram 195 should be used within one month of purchasing the product. Do not open can prior to use.

**Tiling:** DURAM 195 must be completely dry before tiling. Tiles are easily bonded to the membrane using only solvent-free flexible cement based tile adhesives. Strict compliance with the adhesive manufacturers instructions is essential. For further information contact Duram Industries NZ Ltd.

**Intercoat Contamination:** Ensure the membrane does not become contaminated between coats.

**Clean Up:** Wet tools, brushes and spray equipment can be cleaned and uncured DURAM 195 can be removed using DURAM SOLVENT.

**Storage:** DURAM 195 is flammable until cured. Store containers in a cool dry place. Avoid storage of partly filled containers. Leave lids off empty containers and when fully dried out, dispose with household rubbish.

**QUALITY CONTROL**

DURAM 195 is subject to stringent manufacturing quality control and batch testing. However, as DURAM 195 is a moisture curing product some skinning may occur. This will not affect the performance or quality of the balance of the product. Any skin should be cut away and discarded. Avoid storage of open cans. The product batch number is located on the side of each can.

**TECHINCAL INFORMATION**

Cure time: 8 to +/-24hrs

Elongation: 400%

Specific Gravity: 1.6-1.20

Content Less VOCs: 82

Shore Hardness +/- 78%

Water Absorption %:

Tensile Strength: +/- 2.0 Mpa

Service Temperature: +/- 20-100C

Hydrostatic Pressure Resistance: 70Kpa

Appearance: A black viscous liquid

Multithane UV: Offers a grey colour alternative

Equipment Clean Up: Duram Solvent

Flash Point: 44C

Application Temperature: 10C-35C (ambient)

Shelf Life: 6 months unopened

**NOTE**

This data sheet does not constitute a full specification as site conditions and requirements vary. Confirmation of suitability should be sought from Duram Industries NZ Ltd regarding specific projects.

**PACK SIZES**

DURAM 195: One, five and fifteen litre containers

DURAM PRIMESEAL: One, four and twenty litre containers

DURAM SOLVENT: One, four and twenty litre containers

DURAM BOND BREAKER TAPE: 50mm x 10m rolls and 50mm x 30m rolls

DURASCRIM POLYESTER REINFORCING TAPE: 100mm x 10m rolls, 100mm x 50m rolls, 200mm x 50m rolls, 1m x 50m rolls.

**CAUTION / FIRST AID**

- Keep out of reach of children
- Class 3 Flammable Liquid
- Keep away from heat, sparks and open flames
- Swallowed: do not induce vomiting. Give a glass of water
- Eyes: flush eye with copious amounts of water
- Skin: remove contaminated clothing. Wash skin thoroughly with soapy water
- Inhaled: if overcome by fumes, remove from contaminated area, apply first aid then seek medical advice

**NOTICE**

DURAM 195 should only be used in the manner and for the purpose specified. Our obligation shall be to replace or pay for any material proved defective. Beyond the purchase price of material supplied by Duram Industries NZ Ltd, we assume no liability for damages of any kind and the user accepts the product 'as is' and without warranties, express or implied. The suitability of the product for an intended use is solely up to the user.

**DURAM INDUSTRIES NZ LTD**

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