



INSTAPROOF HA80

TWO PART, POLYUREA HYBRID
WATERPROOFING AND PROTECTIVE COATING SYSTEM

DESCRIPTION

Duram InstaProof HA80 is a two component, 100% solids (solvent free), spray applied, elastomeric, hybrid polyurea waterproofing membrane and protective coating.

Duram InstaProof HA80 cures, within seconds to provide a tough, high tensile strength, abrasion and corrosion resistant, seamless membrane and protective coating.

The Duram has been an industry leader for over 30 years.

USES

Instaproof HA80 formulated to waterproof most applications within the building and construction industry requiring long term waterproofing applications making it ideal for:

- Waterproofing membrane over most construction substrates.
- Abrasion resistant protective coating.
- Corrosion resistant protective coating.
- Chemical resistant coating.
- Protective coating in marine environments.
- Protective liner for landfill and waste materials.
- Wear resistant coating / liner for mining operation.
- Protective truck, horse float, Ute liner.
- Trafficable membrane for vehicle parking decks and bridges.
- Protective liner for cargo holds and boat liner.
- Sewerage tank liner.

Advice from Duram should be sort for the most appropriate priming method for these surfaces; Duram has a recommended system for all the above.

***Note:** Particle Board is not regarded as a suitable substrate for wet areas and particularly shower recesses and should be replaced with CFC sheeting. As a minimum, Particle Board should be sealed with one to two coats of **Duram Primeseal MC**. All joins and corners must be sealed with a polyurethane sealant and a reinforced fabric used in conjunction with the membrane. Surfaces must be made good and should be sound, stable, dry, clean and free of dirt, dust and contaminants and suitably primed.

ADDITIONAL USES

- Duram InstaProof HA80 is an excellent waterproofing, abrasion resistant, chemical resistant, trafficable protective coating and therefore has numerous applications on to numerous substrates.
- In all cases, an adhesion test is recommended prior to application.

SPECIFICATION

The information contained in this product data sheet is typical but does not constitute a full specification as conditions and specific requirements may vary from project to project. The instructions should be considered as a minimum requirement, but the applicator or contractor must use their skill, knowledge, and experience to carry out additional works as may be necessary to meet the requirements of the project. Specification for specific projects should be sought from the Company in writing.

LIMITATIONS

- As InstaProof HA80 is a dual component, fast setting, spray applied polyurea membrane coating, requiring appropriate skills in machine set-up, machine functionality and spraying techniques and it should only be used and applied by an experienced applicator.
- Do not apply if material and substrate temperatures are below 25°C or 2°C respectively or if the substrate temperature is greater than 50°C.
- **UV Resistance:** Due to its aromatic composition, the product will discolor and yellow when subject to exposure to UV light. It is recommended to topcoat the product with an aliphatic polyurethane topcoat or other suitable coating which should be done within 6 hours of applying InstaProof HA80.
- Structural movement and crack development must be below the tolerances of the membrane coating or rupture may occur.

BENEFITS AND ADVANTAGES

- Fast curing.
- 100% solids (solvent free).
- Flexible - Elongation >400%.
- High Tensile strength – 21MPa.
- Tough.
- Seamless.
- Abrasion, impact and tear resistant.
- Good chemical resistance.
- Single coat application.
- Rain resistant within 2 minutes.
- No VOC's.

PRECAUTIONS IN USE

Health

Do not spray in confined areas.

Wear suitable breathing respirators.

Gloves, boots and safety goggles or glasses should be worn.

Application

Mask off areas that are not to be coated.

Be wary of wind conditions to avoid over-spray.

Do not dilute the material. Viscosity can be controlled by the temperature of the material.

Regularly check the machine and equipment particularly the filters for buildup of material.

Do not open until ready for use.

SURFACE PREPARATION

Good preparation is essential. Surfaces must be sound, stable, dry, clean and free of dust, loose, flaking, friable material and substances that may diminish adhesion.

All surfaces must be properly and suitably prepared. Problems are mainly attributable to poor surface preparation. Polyurea coatings rely on the soundness and structural integrity of the substrate to which they are applied.

Substrates vary from project to project and may have differing porosity, strength, tensile strength, movement, moisture content and water vapour transmissions. Therefore, preparation requirements may likewise vary and information should be sought from the Company.

All surfaces must be clean, dry, sound and free of dirt, dust, loose material, oil, grease, wax, contaminants, laitance, efflorescence, rust, salts and adhesion detracting substances.

PRIMING

Surfaces should ideally be suitably primed with **Duram Primeseal MC** applied at no less than 1 Lt per 4m² or **Duram Primeseal SP** applied at 1Lt per 7m² and allowed to dry, primers need to be applied at no less than the relevant Duram Primer TDS

If there is a risk of entrapped moisture in the substrate which may cause the membrane to bubble or outgas, two coats of **Duram Primeseal MC** should be applied.

Excessively porous, friable and dusty surfaces may require an additional priming coat.

Metal surfaces must be clean and free of contaminants and then apply **Duram ME Primer**. If rusted, treat to remove rust, apply a rust converter and then apply **Duram ME Primer**.

Allow primers to touch dry before applying the membrane and refer to the TDS of the relevant primer.

DETAILING PREPARATION

Concrete:

- Concrete must be cured for at least 28 days.
- Surface defects such as spalling, concrete cancer, cracks must be suitably corrected.
- Concrete surfaces must have a reasonable degree of porosity and surface profile to allow adhesion.
- Shiny, mirror finish or helicopter finished concrete must be suitably abraded by grinding or shot blasting.
- Prime with one or two coats of Duram Primeseal MC as per the product data sheet. Where water vapour transmission is expected apply two coats of Duram Primeseal MC as per the product data sheet. Apply InstaProof HA80 as soon as the primer is cured.
- The product has good tolerance to application in high humidity conditions. However, if applied directly to moist surfaces some surface blistering may occur.

Where Appropriate or necessary:

- Comply with Concrete Surface Preparation ICRI 03732
- Standard for Cleaning Concrete: ASTM D4258.
- Standard for Abrading Concrete: ASTM D4259.
- Comply with Standard for Etching Concrete: D4260.
- Comply with Standard for Measuring Moisture Vapour Emissions: ASTM F1869

For metals, timber, aluminum, galvanised surfaces contact the Company.

Product Preparation Before Use

Thoroughly stir parts A and B separately using a clean and dry machinal stirrer taking care Not to cross-contaminate the products, then ideally every four hours.

APPLICATION

Introduction

Duram InstaProof HA80 is formulated for application through a heated, plural component, high pressure airless spray machine.

Pre-Conditioning

The A & B Components should be at 25°C to 30°C.

COVERAGE

The stated average coverage rate may vary depending upon type, condition, porosity, texture of the surface and application technique.

The coating can be build up to any thickness, provided it is done in a single, continuous application in a sweeping overlapping technique.

Theoretical Coverage

1mm of thickness requires 1 Litre applied to 1m².

Minimum Usage and Dry Film Thicknesses

As a waterproofing membrane: 1.5 Litres per 1m² (1.5mm thick)

As a chemical or corrosion resistant coating: 2 - 3 Litres per 1m² (2mm to 3mm thick).

As an abrasive resistant coating: 3 - 4 Litres per 1m² (3mm to 4mm thick).

COLOURS

Natural: Cream colour/ Grey available

DRYING AND CURING

Drying and curing of the product is affected by type, dryness and porosity of the surface, temperature, humidity, ventilation, climate conditions and application technique and therefore drying and curing can only be given as a guide.

Tack free: 5 to 10 seconds of spraying.
Full Cure: 24 hours
Rain resistant: 2 minutes
Foot Trafficable: 2 to 4 hours
Vehicle Trafficable: 24 hours to 48 hours

Note: The product attains its full properties, strength and resilience over a 7-day period. It is recommended to allow the product this period before being subjected to heavy traffic.

STORAGE

Store in dry, cool, ventilated area away from direct sunlight.

Storage Life: 6 months at recommended temperatures of 20°C to 25°C and minimum of 10°C. Temperatures below 10°C may result in crystallisation of the product requiring the product to be pre-heated before use. Protect from frost.

Rotate drums periodically if stored for long periods.

If crystallisation occurs then contact the Company for melting instructions.

TILING, TOPPING OR TOP COATING

Exposed Areas:

The cured membrane / coating should be protected from exposure to sunlight and UV by overcoating it with an aliphatic top coat (Multithane ATC A80) which must be applied as soon after the product has been applied but must be within 6 hours.

Not usually directly tiled but can be landscaped.

SAFETY AND PRECAUTIONS

When spraying or using InstaProof HA80, observe usual good industrial safety standards and hygiene.

The following safety equipment should be worn: Appropriate gloves, safety glasses, respirator, D-grade protection suit and boots. Avoid breathing in mist.

Although the product does not contain volatile or flammable solvents, keep all sources of ignition away from uncured product.

For full safety data refer to the products Material Safety Data Sheet. Observe precautions as per label.

TESTS AND TECHNICAL DATA

Cured product Typical Physical Properties

PROPERTY	TEST METHOD BASIS	TYPICAL RESULT
Tensile Strength	ASTM D 412 - 92	21 MPa
Elongation @ 24°C	ASTM D 412 - 92	> 400 %
Tear Strength	ASTM D 624 - 86	79 N/mm
Hardness	ASTM D 2240 -91, Shore D	50
	Shore A	90
Abrasion Resistance	ASTM C 501 - 84, H18 wheel 1000rev, with 1000g weight	170 mg
Water Vapour Transmission Rate	E 96 - 05 (B)	5.9 g / 24 h.m ²
Water Absorption	AS 3558.1	1.2%

CONDITIONS OF USE AND DISCLAIMER

The information contained in this Material Data Sheet is given in good faith based upon our current knowledge and does not imply warranty, express or implied. The information is provided and the product is sold on the basis that the product is used for its intended purpose and is used in a proper workmanlike manner in accordance with the instructions of the Product Data Sheet in suitable and safe working conditions. Under no circumstances will the Company be liable for loss, consequential or otherwise, arising from the use of the product.

DURAM PTY LTD ABN 50 612 836 718
The Ultimate in Waterproofing & Protective Coating Technology

Duram Offices:

NEW SOUTH WALES:

51 Prince William Drive, Seven Hills, NSW 2147

Tel (02) 9624 4077 Fax: (02) 9624 4079

QUEENSLAND:

Unit 4, 29 Collinsvale St Rocklea, QLD 4106

Tel (07) 3255 6478 Fax: (07) 3255 6258