

Duram 195

Polyurethane Waterproofing

Duram 195 is a high performance polyurethane waterproofing coating with exceptional flexibility. Used to waterproof box gutters, retaining walls, roof detailing, complex spaces and non-potable dams, *Duram 195* provides a seamless coating. It is suitable for permanent immersion in water and requires minimal maintenance.



ENVIRO CARE

- Complies with the South African legal lead limit of 90ppm or less.
- Paint container is 100% recyclable and reusable.



PRODUCT USES

Use *Duram 195* to waterproof:

- Box gutters.
- Below grade retaining walls.
- Roof detailing such as roof screws, flashings, around skylights, solar panels and industrial fans.
- Dams, reservoirs and water features that don't contain drinking water.
- For complex and detailed spaces.
- Under tiles and screeds.
- Can be used on cement plaster, fibre-cement, concrete, brickwork, PVC, mild steel, galvanized iron, fibreglass and marine plywood.



ADVANTAGES

- Premium polyurethane waterproofing coating.
- Exceptional strength and flexibility (elongation > 300%).
- Adheres well to most surfaces.
- Provides seamless waterproofing.
- Suitable for permanent immersion in water.
- Easily waterproof complex and detailed spaces.
- Minimal maintenance required.
- Good chemical resistance.
- Protects surfaces from corrosion and degradation.
- Suitable for vertical and horizontal surfaces.
- Quick and easy to apply.
- Does not harden or go brittle over time.
- A single component solution, so there is no measuring or mixing – simply brush on.
- Self flashing - bonds to penetrations, outlets, supports, columns and walls.
- Resists water creep.



COVERAGE

- 3 coats @ 1.33 m²/litre per coat. Depending on surface conditions.
- **Wet film thickness:** 750 microns/coat.
- **Dry film thickness:** 1.2mm - 1.4mm.



SURFACE PREPARATION

Ensure all substrates are thoroughly clean, sound, dry and free from any contaminants such as dirt, rust, salt, algae, fungi, oil, grease and loose, flaking paint. Remove any sharp protrusions that may damage the coating. Repair damaged substrates and treat imperfections with a suitable filler.

NEW SURFACES

- **Cement plaster, fibre-cement, concrete and brickwork:** Clean substrate well and allow to dry. The moisture content must be less than 3% or have aged for at least 28 days prior to priming. Prime with *Duram Duraprime* as per instructions. Apply *Duram 195* when the primer is touch dry (approx. 4

hours), but for best adhesion do not allow the primer to hard cure (24 hours). Concrete and cement surfaces with airholes should be adequately bagged.

- **Galvanized iron:** Clean substrate with *Duram NS2 Galvanized Iron Cleaner* as per instructions. Prime with *Duram Duraprime* as per instructions. Apply *Duram 195*.
- **Mild Steel:** Remove any surface rust or mill scale by sanding or wire brushing. Clean substrate with *Duram NS2 Galvanized Iron Cleaner* as per instructions. Apply *Duram 195* direct.
- **Fibreglass, Marine Plywood and PVC:** Unweathered surfaces must be sanded to remove all gloss and wiped with *Duram Xylene* as per instructions. Apply *Duram 195* direct.
- **Expansion joints and cracks:** A high quality joint sealant should be applied to expansion joints and cracks exceeding 15mm.

PREVIOUSLY PAINTED SURFACES

- **Sound surfaces:** Sand glossy surfaces to a matt finish, wipe with *Duram Xylene* as per instructions and apply *Duram 195* direct.
- **Bituminous sealer:** Do not apply *Duram 195* directly over bituminous sealers without first applying a coat of *Duram Duraprime* to avoid solvent attack. *Duraprime* is not necessary for acrylic-bound bituminous sealers.



APPLICATION

- Ensure the appropriate Duram primer or undercoat has been applied.
- Stir *Duram 195* well using a flat paddle for at least 5 minutes. Also stir occasionally during use.
- Thinning is not recommended.
- Apply three coats at a uniform thickness with a brush at 750ml/m² per coat.
- On structural corners, upstands, cracks, full bores and imperfections, *Duram Duramesh* reinforcing membrane should be embedded into the first wet coat.
- Drying time between coats: 6 hours.
- To achieve adhesion and avoid any contamination: if further coats are required beyond 24 hours, clean the *Duram 195* surface of all tar by wetting with *Duram Xylene* and wiping with clean paper or cloth until no more yellow tar comes off. Immediately apply the next coat.
- *Duram 195* cannot be topcoated, but can be covered if required, with tiles, slate, roof sheets or stone chips.



CLEANING

- **Skin:** Soap and water.
- **Equipment:** *Duram Xylene* when wet. *Duram DuraStripp* or best removed mechanically when dry.



COLOUR

- Black



IMPORTANT

- Call our Technical Helpline or visit duram.co.za for queries and updated Technical Data Sheets and Safety Data Sheets.
- Take care when lifting and carrying. In transit, keep tightly closed in a secure, upright position.
- Whilst every care is taken in manufacture, no warranty is given relating to use.
- Thin only if necessary and only with *Duram Xylene*.
- Do not mix with water, mineral turpentine, thinners or any solvent containing water or alcohol. Alcohol will prevent *Duram 195* from curing, while water will cause it to foam and cure in the can.
- *Duram 195* is not suitable for fishponds, swimming pools, or any containers carrying potable water or fish.
- *Duram 195* has a strong lingering tar smell which must be considered if used in interior or poorly ventilated spaces.
- Do not apply *Duram 195* directly onto bituminous sealers.
- Do not apply outside if rain is expected. Apply when ambient and surface temperatures are between 5°C and 35°C.



SAFETY PRECAUTIONS

- Refer to Safety Data Sheet for complete environmental, health and safety information.
- If medical advice is needed, have container or label at hand.
- Keep out of reach of children.

- Flammable liquid and vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use non-sparking tools.
- Use in a well-ventilated area. Avoid breathing dust, fumes, vapours or spray especially during spray application/sanding as it may be harmful depending on the duration and level of exposure
- Use appropriate personal protective equipment.
- If experiencing respiratory symptoms: Move person to fresh air, in a position comfortable for breathing. Call a doctor.
- If on skin: Wash with plenty of soap and water.
- If in eyes: Rinse with water.
- If swallowed: Immediately call a poison centre/doctor. Do not induce vomiting.
- Store locked up, in a well-ventilated place and keep cool.
- Dispose of contents/container to an authorised waste collection point



SUPPORTING PRODUCTS



DuraPrime

Duram NS2
Galvanized Iron Cleaner

Duram Xylene



Duram Duramesh



Duram DuraStripp



YOU MAY ALSO NEED

- Primers and undercoats
- High-pressure cleaner
- Paper towel and cloths
- Wire brush, sandpaper or steel wool
- Masking tape
- Drop sheets
- Ladder
- Appropriate filler or joint sealant and putty knife
- Screwdriver or paint-can opener
- Paint stirrer or flat paddle
- Protective gloves/protective clothing/eye protection/face protection
- Good-quality brushes
- Additional utensils/products may be required in the preparation of surfaces.



TECHNICAL DATA

Pack Size	1 litre, 5 litre
Number of Components:	1
Binder Type:	Solvent borne Polyurethane
Solvent Type:	Light Aromatic Petroleum Based
Solids Content by Mass %:	±97
Density g/cm³:	1.08 - 1.14
Recommended Wet Film Thickness µm:	750 per coat
Recommended Dry Film Thickness µm:	1.2 - 1.4
Dry Time @ 25°C:	48 hours 5 - 7 days full cure (high humidity or cooler temperatures will prolong drying times)
Viscosity cPs:	10 000 - 16 000
Flash Point °C:	43

Appearance	Smooth
Surface Temperature °C:	Min 5 and Max 35
Ambient Temperature °C:	Min 5 and Max 35
Relative Humidity %:	Up to 3°C below Dew Point
Service Temperature °C:	Up to 55°C
Storage Temperature °C:	Min 5 and Max 35 Under cover in cool, dry conditions.
Thin with:	Duram Xylene
Clean up:	Duram Xylene
Shelf Life:	18 months
UV Resistance:	Good

The information contained in this literature is presented in good faith and based on data believed to be reliable. The addition of any other chemicals or additives could influence the performance of the product and affect its properties. The safety and handling procedures given in this datasheet are on the assumption that the user has sufficient technical skills to ensure that the product will present no health or safety hazard to those coming in contact with it. Correct application of the products is critical to the successful performance thereof and the manufacturer cannot accept any liability for performance failure due to the incorrect application of the products. As the conditions of use are outside of the manufacturer's control, the user must establish the suitability of the product for any intended application. For this reason, no warranty, implied or expressed, is given. Nor is it intended that any information given allows the right to infringe any intellectual property of the manufacturer.

Updated: August 22 (this supercedes all previous publications)