DURAVEX Paints

TECHNICAL DATA SHEET (TDS)



Duravex RoofSeal is a water-based styrene acrylic rubberised roof coating designed for general waterproofing, sealing and maintenance applications. It forms a seamless, flexible membrane offering good adhesion, UV resistance and weather durability when applied to suitable substrates with adequate drainage.

ROOFSEAL

KEY PROPERTIES

- Rubberised roof coating providing reliable waterproof protection for general applications.
- Water-based system for easy application, low odour, and water clean-up.
- Provides a seamless, flexible protective membrane when correctly applied.
- Good resistance to UV exposure, weathering, and environmental conditions.
- Flexible film suitable for normal substrate movement under non-demanding conditions.
- Designed for maintenance and refurbishment applications on roofs with adequate drainage.
- Forms a smooth, uniform medium-sheen finish.
- Suitable for use as a standalone coating or with reinforcement in detailing areas.

PRODUCT USES

- Sealing and protection of roofs with adequate falls and proper drainage.
- Parapet walls, wall tops, cappings, flashings, joints, and detailing areas.
- Application to concrete, cementitious, fibre-cement, masonry, and plastered substrates.
- Waterproofing of metal substrates when correctly primed.
- Application to previously painted acrylic surfaces that are sound and well adhered.
- Suitable for general maintenance and refurbishment waterproofing applications.
- Suitable for interior and exterior applications where moderate flexibility is required.

TECHNICAL INFORMATION

Product Type:	Water-based styrene acrylic system.
Physical Form:	Smooth viscous coloured liquid.
Finish:	Smooth Medium Sheen.
Application Methods:	Brush, roller, or airless spray.
Cleaning of Equipment:	Clean with water while the product is still wet.
Thinning:	Product supplied ready for use. No dilution required.
Mixing:	Stir well with a flat paddle before use. Do not use paint stirrers, as this may aerate the product.
Typical Spread Rate:	± 3 - 3.5m² per litre per coat (actual coverage depends on surface texture and porosity).
Drying and Cure Times: (At ±23-25 °C and ±50%-65 relative humidity)	Touch dry: ± 2-4 hours | Recoating time: ± 4 hours | Rain resistance: ± 6–8 hours after final coat | Full cure: 14 days. Drying and curing times are dependent on temperature, humidity, air movement, and substrate condition.
Viscosity:	± 100–110 Krebs Units (KU).
pH:	± 8.5 - 9.5
Specific Gravity / Relative Density:	± 1.17 kg per litre
Total Solids Content (TSC):	± 47%
Pigment Volume Concentration (PVC):	± 27%
Pigments and Fillers:	Pigments and fillers are selected for lightfastness and resistance to alkaline substrates.
Flash Point:	Non-flammable (water-based product)

Colour Range:	Range of standard colours
Packaging Sizes:	5L and 20L
Storage:	Store in a cool, dry area away from direct sunlight and frost. Ensure containers are sealed when not in use.

GENERAL APPLICATION REQUIREMENTS

The performance of Duravex RoofSeal is dependent on correct surface preparation, application, and environmental conditions. All substrates must be structurally sound, dry, clean, and free from contaminants.

Application must not take place under the following conditions:

- Substrate moisture content exceeding acceptable limits.
- Rainfall during application or curing.
- Inadequate falls or areas subject to ponding water.
- Extreme temperatures or unsuitable environmental conditions.
- Application onto damp, frozen, or condensation-covered surfaces.

RoofSeal is not intended to serve as a trafficable surface.

SUITABLE SUBSTRATES

RoofSeal is suitable for application to the following correctly prepared substrates:

- Cementitious and concrete surfaces.
- Fibre-cement sheeting and boards.
- Masonry and plastered surfaces.
- Galvanised and suitably primed metal substrates.
- Previously coated acrylic surfaces.

IMPORTANT NOTES / LIMITATIONS

- Not suitable for areas subject to permanent or prolonged ponding water.
- Designed for use on roofs with adequate falls and drainage only.
- Not suitable for bitumen, torch-on membranes, asphalt, or malthoid.
- Not suitable for structural expansion joints or excessive movement.
- Not intended as a structural repair system.
- Not suitable for application beneath or over tiled roofing systems.
- Substrate must be free from rising or trapped moisture.
- Film thickness must be sufficient — under-application will reduce performance.
- Regular inspection and maintenance are required for optimal performance.

APPLICATION & SURFACE PREPARATION

1. GENERAL APPLICATION REQUIREMENTS

All substrates must be clean, dry, sound, and properly prepared prior to application.

Application must not take place where:

- Moisture content is excessive
- Rain is expected
- Drainage is inadequate
- Environmental conditions are unsuitable

2. SUITABLE SUBSTRATES

- Cementitious and masonry surfaces.
- Fibre cement boards.
- Plastered surfaces.
- Correctly primed metal substrates.

3. NEW OR UNCOATED CEMENTITIOUS SUBSTRATES

Allow new substrates to cure for a minimum of 28 days.
Remove laitance, dust, and contaminants.
Prime porous surfaces with Duravex BondPro.

4. PREVIOUSLY COATED SURFACES

Ensure coatings are sound and well adhered.
Remove loose or defective coatings.
Abrade glossy surfaces.
Prime if required.

5. METAL SUBSTRATES

Clean, degrease, and remove corrosion.
Prime with Duravex IronPrime Metal Etch Primer.

6. JOINTS, CRACKS, AND DETAILING AREAS

All cracks and joints must be properly prepared and sealed prior to application.
Reinforcement may be used where required for additional durability.

7. PRIMING

Use Duravex BondPro for porous surfaces.
Use Duravex IronPrime for metal substrates.

8. MIXING

Mix thoroughly using a low-speed paddle. Do not aerate or overmix. Do not dilute.

9. APPLICATION METHOD

Apply using brush, roller, or airless spray.

• Minimum two (2) coats required.
• Three (3) coats recommended on low-slope areas.
• Apply evenly at recommended spread rate.
• Allow sufficient drying between coats.
• Avoid over-application in a single coat.

APPLICATION CONDITIONS

Application of RoofSeal must be carried out only under suitable environmental conditions to ensure proper film formation, adhesion, and curing.

- Recommended application temperature range: 10 °C to 30 °C.
- Maximum allowable substrate and ambient temperature: 35 °C. Application above this temperature is not recommended.
- Application should be avoided during early morning condensation, periods of high humidity, late afternoon or evening cooling, or when dew
- formation is likely to occur.
- Application should also be avoided during periods of excessive heat, strong direct sunlight, or where rapid surface skinning may adversely
- affect curing and film integrity.
- Application must cease immediately if weather conditions become unstable or rainfall is imminent, and the applied coating must be protected
- from moisture until sufficiently cured.

Environmental conditions must remain suitable throughout application and the initial curing period to prevent wash-off, blistering, or compromised performance.

DRYING AND CURING

Drying and curing times are based on standard conditions of approximately 23–25 °C and 50–65% relative humidity. Actual drying and curing times may vary depending on ambient temperature, substrate temperature, humidity, air movement, film thickness, and site conditions.

Touch dry: approximately 2–4 hours
Recoating time: minimum 4 hours, subject to prevailing conditions and recommended overcoating guidelines
Rain resistance: approximately 6–8 hours after the final coat, provided suitable curing conditions are maintained
Full cure: up to 14 days, depending on environmental conditions and applied film build

The applied coating must be protected from moisture, rainfall, and premature service exposure during the drying and curing period. Lower temperatures, higher humidity, limited ventilation, or increased film thickness may extend drying and curing times.

CLEANING OF EQUIPMENT

All application equipment, tools, and mixing utensils must be cleaned immediately after use using clean water while the product is still wet.

HEALTH, SAFETY, AND HANDLING

Avoid skin and eye contact during handling and application. Appropriate personal protective equipment (PPE), including gloves, eye protection, and suitable protective clothing, should be worn.

- Ensure adequate ventilation during application and throughout the drying period, particularly when working in enclosed or poorly ventilated areas.
- Skin contact: In the event of skin contact, wash immediately with clean water. Seek medical advice if irritation persists.
- Eye contact: In the event of eye contact, rinse immediately with plenty of clean water for several minutes. Seek medical attention if irritation persists.
- Inhalation: Avoid inhalation of vapours, fumes, or mist. Move to fresh air if discomfort occurs.
- Ingestion: If swallowed, do not induce vomiting. Rinse mouth with clean water and seek medical attention immediately.

This product should be handled and stored in accordance with good industrial hygiene practices. Refer to the Safety Data Sheet (SDS) for full details regarding health, safety, handling, storage, and emergency measures.

STORAGE

Store in a cool, dry area away from direct sunlight and frost. Containers must be kept tightly sealed when not in use.

LIFE EXPECTANCY

When applied strictly in accordance with the recommendations contained in this Technical Data Sheet, and subjected to normal environmental exposure and service conditions, the RoofSeal waterproofing system may provide a service life of up to ten (10) years.

To achieve the intended service life, it is recommended that the applied system be inspected periodically and that a maintenance coat be applied at approximately five (5) years, subject to exposure conditions, wear, and the service environment.

Actual service life will vary depending on substrate condition, surface preparation, application thickness, environmental exposure, movement, maintenance practices, and ongoing service conditions.

DISCLAIMER

The information contained in this Technical Data Sheet is based on laboratory testing, industry knowledge, and practical application experience and is provided in good faith as a general guide.

Product performance is dependent on factors beyond the manufacturer's control, including substrate condition, surface preparation, application method, environmental conditions, and workmanship. No guarantee or warranty of performance or suitability for any particular purpose is given or implied.

The manufacturer shall not be liable for any direct, indirect, incidental, or consequential loss or damage arising from the use or application of this product. Product specifications may be amended without prior notice. It is the responsibility of the user to ensure that the latest version of this Technical Data Sheet is consulted prior to application.

COMPATIBLE DURAVEX PRODUCTS



BondPro Bonding Liquid



IronPrime Metal Etch Primer



FibreFuse Fibre-Infused Waterproofing



MaxSeal Elastomeric Waterproof Coating



MaxSeal Ultra Polyurethane Waterproofing

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