

Enviro Roof & All

Technical Data Sheet



Product description

Premium quality UV-resistant water based acrylic roof and wall coating with Infrared reflective technology with a minimum Total Solar Reflectance (**TSR**) of 30%.

Intended Uses

An extremely durable, weather resistant coating for use on primed or sealed galvanised steel, granular tiles, cement tiles, fibre-cement sheets, through-colour roof tiles, Zinalume and Aluzinc. Highly recommended for exterior and interior wall surfaces.

Product Features

UV-resistant for long lasting protection.

- Reduction of roof surface temperature by approximately 10 °C
- Reduction of interior temperature by up to 8 °C
- Can lead to power and cost savings by reducing the need for cooling.
- Thermal emittance < 1
- Easy application by brush, roller or airless spray.
- Easy to clean equipment with water after use.
- Can be used on prepared cladding, galvanised garage doors, galvanised gutters and down pipes.
- 12 Year Life Expectancy
- The coating has a minimum **TSR** of 30%

Product Information

Appearance	Low sheen
Colours	Standard colours as per colour card
Volume Solids	36%
Viscosity @ 23 °C	Approx. 105 KU
Recommended DFT	40 - 50 µm per coat
Recommended WFT	111 - 138 µm per coat
Theoretical spreading rate	7,2 m ² /L @ 50 µm per coat (on smooth surfaces)
Practical Spreading Rate	The practical spreading rate will vary depending on the profile of the substrate, as well as the application technique and tools used.

Application Details

Mixing	Stir thoroughly with a flat paddle until homogeneous and occasionally during use.
Method	Brush, roller or airless spray. To maximise the % TSR and hence the cooling effect of Enviro Roof & All on dark coloured roofs apply one coat of Enviro Roof & All White as a base coat
Thinning	Do not dilute. Ready for use.
Cleaning	Water
Drying time	Touch dry: 30 min @ 23 °C

Information Provided is based on Laboratory evaluations and data believed to be reliable. Recommendations are given in good faith but without warranty. It is the user's responsibility to determine the suitability for their own use. It is not to be considered a guarantee of the products properties. For more information contact our Factories:
Western Cape: Tel/Fax: (021) 853-8105 Mpumalanga: Tel: (013) 246-2570 Fax: (013) 246-2573

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Over coating: 2 h @ 23 °C

Application environment

Surface Temperature	Ambient Temperature	Relative Humidity
Min: 10 °C	Min: 10 °C	Min: 10%
Or 3 °C min. above dew point		
Max: 50 °C	Max: 35 °C	Max: 85 %

Calculating the quantity of paint required:

Calculating the surface area of the roof:

Step 1: Calculate the flat square metre area

Step 2: Adjust to the pitch of the roof by adding the following %:

Pitch of the roof	Add factor %
High	40
Normal	30
Low	20

Step 3: Adjust the roof type to account for the profile by adding the following %:

Roof Type	Add factor %
Profiled corrugated	30
Profiled IBR	30
Profiled smooth cement tiles	25
Profiled granular cement tiles	30

You now have the total area of the roof in square metres.

Divide the figure by the average spreading rate of paint for the particular roof surface.

This will give you the number of litres of paint required per coat.

Multiply by 2 to obtain the total number of litres for 2 coats.

Storage and Packaging

Store away from direct sun, heat and severe cold

Packaging: 1L, 5L and 20L plastic containers.

Surface preparation

Remove any fungal growth or algae with **Biocidal Wallwash** or household bleach (3, 5% solution of sodium hypochlorite) thinned 2 parts bleach to 1 part water by volume. Leave on surface for approximately 1 hour and then scrub with a hard bristle brush to remove all dead growth. Rinse thoroughly with fresh water. Allow to dry.

Repair leaks and defective flashing with **Aquaseal Gold** or **Dampsolve** and the appropriate waterproofing membrane.

GALVANISED IRON:

New: Remove fabricators pre-treatment oil, grease and any other contaminants with **Superclean** diluted 1 part to 5 parts water. Hose and scrub down with a hard bristle brush and fresh water and repeat cleaning process until a water break-free surface is obtained. Prime with **Primer 2000**.

Unpainted & weathered: Remove oil, grease, white rust or any other contaminants with **Superclean** to achieve a water break-free surface. Rinse thoroughly with fresh water. Then prime with **Primer 2000**. Areas showing red rust must be abraded back to bright metal, patch primed with **Primer 2000** and then the whole surface primed with **Primer 2000**.

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Roofs within 1km of the coast: Areas showing red rust must be abraded back to bright metal, patch primed with **Corpro 600** and then the whole surface primed with **Corpro 600** applied at a min WFT of 188 µm.

Previously painted: Carry out adhesion tests on previous coating. Cross cut test to ISO 2409 standard. Remove faulty paint and scrub entire area with a **Sugarsoap** solution (500 g into 5 L water). Clean with high-pressure water jet to remove sugar soap solution, chalk and dirt. Treat any bare areas as above for Unpainted & weathered.

FIBRE-CEMENT SHEETING:

Unpainted: Remove dust, dirt, loose granules, friable and powdery material with high-pressure water jet or alternatively scrub down with a hard bristle or wire brush and water. Allow surface to dry. Seal entire surface with **Bonding Liquid**. Allow 16 h to dry. Apply 2 coats of **Enviro Roof & All**, allowing 2 h drying between coats.

Previously painted in good condition: Carry out adhesion tests on previous coating. Cross cut test to ISO 2409 standard. Remove faulty paint and scrub entire area with a **Sugarsoap** solution (500g into 5 L water). Clean with high-pressure water jet to remove sugar soap solution, chalk and dirt. Seal bare areas with **Bonding Liquid**. Allow 16 h to dry.

Previously painted in poor condition: Strip completely. Restore powdery and friable surfaces to a sound condition by applying **Bonding Liquid**. Allow to dry for at least 16 h @ 23 °C. Apply 2 coats of **Enviro Roof & All** before contamination of the surface can take place.

CEMENT TILES AND GRANULAR TILES:

Unpainted: Remove dust, dirt, loose granules, friable and powdery material with high-pressure water jet or alternatively scrub down with a hard bristle wire brush and water. Allow surface to dry. If surface is still sound, apply **Enviro Roof & All** direct on the substrate. If surface is still friable and powdery seal with **Bonding Liquid**. Allow to dry for at least 16 h @ 23°C. Apply 2 coats of **Enviro Roof & All** before contamination of the surface can take place, allowing 2 h drying between coats.

Previously painted in good condition: Carry out adhesion tests on previous coating. Cross cut test to ISO 2409 standard. Remove faulty paint and scrub entire area with a **Sugarsoap** solution (500 g into 5 L water). Clean with high-pressure water jet to remove **Sugarsoap** solution, chalk and dirt. Seal bare areas with **Bonding Liquid**. Allow 16 h to dry.

Previously painted in poor condition: Strip completely. Restore powdery and friable surfaces to a sound condition by applying **Bonding Liquid**. Allow to dry for at least 16 h @ 23 °C. Apply 2 coats of **Enviro Roof & All** before contamination of the surface can take place, allowing 2 h drying between coats.

ZINCALUME AND ALUZINC:

Scrub surface thoroughly with **Sugar Soap** solution (**500g into 5 Litres water**). Rinse thoroughly with clean water to neutralise. Allow to dry. Prime with **Primer 2000**.

CHROMADEK:

Scrub surface thoroughly with **Sugar Soap** solution (**500g into 5 Litres water**) or **Superclean** and scouring pads to remove chalk and contaminants. Rinse thoroughly with clean water to neutralise. Allow to dry. Prime with **Corpro 200 diluted 100% with Epoxy Thinners**. Allow at least 8 hrs to dry but not more than 24 hrs before over coating.

SPECIAL CAUTION TILES:

N.B. The painting of **clay, slurry coated tiles, slate, bituminous tiles (or bituminous surfaces) and wooden shingles is NOT RECOMMENDED.**

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EXTREMELY POROUS SURFACES-UNPAINTED CEMENT AND WELL-WEATHERED TILES:

Remove dust, dirt, loose granules, and friable and powdery material with a high-pressure water jet or by scrubbing with a hard bristle or wire brush and water. Allow surface to dry. Apply undiluted **Bonding Liquid** (refer to technical data sheet for application details). Allow to dry for at least 16 h @ 23 °C before applying 2 coats of **Enviro Roof & All**, allow 2 h to drying between coats. Overcoat before contamination of the surface can take place.

Application

To properly prepared and sealed surfaces apply **Enviro Roof & All** by brush, roller or airless spray at to a total DFT of 80 - 100 µm.

To maximise the % **TSR** and hence the cooling effect of **Enviro Roof & All** on dark coloured roofs apply one coat of **Enviro Roof & All White** as a base coat and thereafter two coats of **Enviro Roof & All** in the colour of your choice.

N.B. When painting corrugated sheet roofs, start at the apex and work downwards completing a full sheet at a time joining in the valleys to avoid lap marks.

Allow at least 2 hours drying time between coats.

Caution

NOTE: Do not thin **Enviro Roof & All** - ready for use.

Friable and powdery surfaces require special care before painting- if in doubt contact **O'Grady's Technical Services** on +27 13 246 2570.

For health reasons, avoid dusting when preparing fibre-cement surfaces. Keep surfaces wet and wash off residues with water.

The painting of slate, clay, slurry tiles, bituminous surfaces and wooden shingles is not recommended.

Do not apply to surfaces where the temperature is less than 10 °C.

Do not paint under conditions of frost, dew, rain or fog or inclement weather. **Note:** Painting under the above conditions may affect the performance of the paint film.

To ensure that colours on a project are consistent, check that batch numbers and product codes are the same.

The Enviro 12 year life expectancy is not applicable where **Enviro Roof & All** is used on **flat roofs**.

Safety Precautions

Keep out of reach of children.

Ensure good ventilation during application and drying.

Do not pour paint down the drain

In case of skin contact, wash with soap and water or a recognised skin cleaner.

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Avoid contact with eyes. In case of contact, rinse eyes immediately with plenty of water and seek medical advice if symptoms persist.

Harmful if swallowed. Seek medical attention and do not induce vomiting.

Refer to Safety Data Sheet for complete information.

Disclaimer

The recommendations contained herein are given in good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

NB: Technology may change with time necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used.

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