

ONDULINE INSTRUCTIONS



FOR MAINTENANCE AND
REPAINTING OPERATION



Onduline[®]

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This document describes some recommendations and some instructions when a repainting operation is planned.

It is valid for all corrugated bitumen sheets and tiles coated or painted ONDULINE® Classic, ONDUVILLA®.

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1. SAFETY



CAUTION REGARDING PAINT

! KEEP OUT OF THE REACH OF CHILDREN!

- Do not take internally.
- Close container after each use.
- Use only with adequate ventilation.

FIRST AID

- In case of eye contact, flush thoroughly with large amount of water. Get medical attention if irritation persists. If swallowed, get medical attention immediately.

SAFETY TIPS

- Previously to any repainting operations, check the painters will work safety and that they do not deteriorate the corrugated bituminous sheets/tiles. Particular check the roof frame is able to support the extra weight of the painters. It is recommended to use a ladder or any other similar equipment to insure the repartition of the weight.
- Do not walk directly on the corrugations or between two supporting battens or purlins.
- In case of high pitch roof, a safety harness is mandatory in order to ensure the safety of the workers. Also in some cases an aerial lift might be necessary.

2. RECOMMENDED USES

- Repainting is specially recommended for difference of shades that may remain after stabilization period in case of 2 sets of sheets/ tiles installed on a same roof.
- In case of loss of color/ discoloration/erosion, the adhesion of the paint may be affected due to possible loss of primary layer. As a consequence it is highly recommended to apply a primer prior to repainting.
- In case of doubt please contact your Onduline sales office.

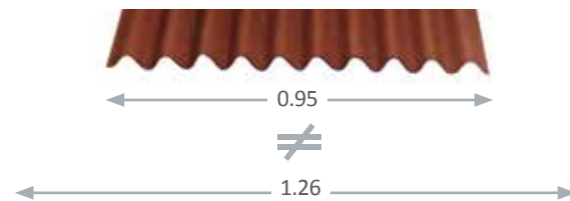
3. MATERIALS

3.1 TYPE OF PAINT

Use a specific water-based roofing paint, preferably an exterior grade latex acrylic paint or pure acrylic paint. ONDUPAINT is specially recommended for this application. For best results apply the same color as the original.

! DO NOT USE SOLVENT OR OIL BASED PAINTS OR COATINGS ON ONDULINE® MATERIAL.

- The optimum quantity is one liter of paint for 5m², depending on the type of paint. Check the specification written on the paint tin. Be careful, the surface calculation must be based on the developed surface, not the net square meter of the roof.
- A corrective coefficient of 1.3 for ONDULINE® CLASSIC has to be applied. For instance, a roof surface of 10m² represents a painted surface of 10 x 1.3 = 13m².



3.2 ONDUPAINT

DESCRIPTION OF THE PRODUCT:

- High-tech product based on acryl-silicon composition. Homogeneous suspension containing light and weather resistant pigments and special additives.

COLOUR:

- Here below the RAL reference for colour choice. Also available in other colours on demand.

APPEARANCE:

- Homogeneous viscose fluid.

COMMENTS:

- There is no link between the color codes RAL Design and RAL Classic. Some Onduline® colors do not match with these two charts. In this case the RAL color code indicated in the table is the closest to the Onduline® color.
- RAL color codes are valid for new sheets ONDULINE® CLASSIC, PLUS, PRO (from the factory).

ONDULINE® CLASSIC	RAL Design	RAL Classic	RAL Color
PPHR Red	010 20 20	8015*	Black red
PPHR Brown	050 20 10	8017*	Chocolate brown
PPHR Black	High	9005*	Jet black
PPHR Green	130 30 10	6007*	Bottle green

ONDULINE® ISOLA PLUS & ISOLA PRO	RAL Design	RAL Classic	RAL color
Slate grey	240 20 05	5008*	Grey blue
Brown	040 20 19	8016	Mahogany brown
Classic Red	040 30 40*	3011*	Brown red
Terracotta	050 50 40	8023*	Orange brown
Forest Green	140 30 10*	6003*	Olive green
Ebony Black		9004	Signal black

* Important colorimetric gap

DENSITY:

- Weight of 1L - approx. 1.3 kg.

STORAGE:

- Store in tightly closed containers, in closed and dry storage areas, at temperature of 5°C-30°C. Keep away from frost and direct sunlight.

APPLICATION FIELD:

- Designed for renovation of worn and/or damaged roof finishing coverings as bitumen-based (e.g. corrugated sheets).
- Prevents from destruction in frost and embellishes the base by restoring its initial appearance. The product forms a hydrophobic film with water repellent surface micro-structure and extremely good adhesion to the base. Resistant to light, weather conditions and pollution. High penetrability and easy to apply. The paint may be applied before or after installation of the roofing.

3.3 OTHER MATERIALS



BUCKET FOR MIXING



WATER



PAINT



STICK FOR MIXING



BRUSH



FLEXIBLE BRISTLE BROOM

3.4 PREPARATION OF THE BROOM



4. PAINTING INSTRUCTIONS

4.1 PAINTING CONDITIONS

- Usually apply paint only when air and surface temperatures are above 10°C, above the dewpoint and relative humidity is below 85%. Avoid to paint the sheet if the outside temperature is over 35°C in order to guarantee the best quality. In any case, check the instructions on the paint tin.
- Coating must not be applied outdoors when it is raining, snowing, sleeting, etc. or when any form of precipitation is imminent. You must stop painting early enough in the day to allow the paint to dry before the sun goes down. Do not paint on windy days.
- In case of doubt contact your Onduline sales office.

4.2 PAINT PREPARATION

- The paint must be thoroughly mixed before use.
- The paint may be thinned by adding small amounts of water (about 90:10) and mixing until correct consistency for spraying or brushing. This will assure good penetration into the surface structure.
- Some specific paints may need a higher dilution, up to 30% of water, check the instructions on the paint tin.

4.3 SURFACE PREPARATION

- Coating integrity and service life will be reduced because of improperly prepared surfaces. The surface should be free of moisture, dirt, loose paint, etc. Any blisters, cracks or sharp edges should be first repaired and all surface debris removed.
- Mold and mildew should be removed by scrubbing with a mixture of one-quart household bleach to three quarts of water. Scrub well with a brush and allow solution to remain on the surface for ten minutes before rinsing with clean water. WEAR PROTECTIVE GLASSES OR GOGGLES AND WATERPROOF GLOVES! All areas must be thoroughly dry prior to painting.

! DO NOT USE ABRASIVE OR HIGH PRESSURE WATER BLASTERS to clean sheets or tiles. Low-pressure water (80psi or less) may be used.

- Badly weathered areas (bare spots with no paint) should be hand brushed with a coat of paint prior to spray coating. Failure to take this step can give poor results. After spot priming the bare areas, the entire roof should be painted.
- A primer can be used as under coat. Use the same finish paint (ONDUPAINT for example) as self priming coat: dilute the paint 50:50 with water and mix well. Apply by brush ensuring that the bristles' ends reach the valleys in the structure of the surface and deposit the paint. Allow to dry fully.

4.4 PAINT APPLICATION

- Start from the ridge part of the roof. For detailed area, use a brush.
- Keep mixing the paint preparation on a regular basis in order to avoid losing homogeneity.

Two options are possible:

- Use of a airless spray
- Use of a broom.



- If use of airless spray, we recommend a 0.026" or 0.031" spray tip, 600psi-1200 psi (40bars-80bars), fluid pressure and a 60-mesh filter.
- If use of a broom with flexible bristles, immerse the broom in the paint and start the application without wringing. It is better to apply the paint in the direction of the slope. Spread the paint well avoiding over-deposition.
- Drying time is about 8 hours and may fluctuate according to the weather conditions.
- For best results apply two thin coats of paint instead of one heavy coat. Allow to dry fully between the two coats.

NOTA:

Same recommendations applied for the back side of the sheets/tiles.





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