

resoltech Decoflakes

primer/clear topcoat/flakes

Decorative pools, ponds and floor topcoat



- Ready to use kit
- Perfectly waterproof coating
- Homogeneous and customizable finish
- Wide range of flakes colours and sizes

INTRODUCTION

RESOLTECH Decoflakes is a unique **solvent free epoxy system**.

Thanks to its specific formula, it will allow you to achieve a homogenous and decorative coating with a granite like finish **on all kind of substrates**. Three coats are necessary to obtain the minimum thickness that will guarantee the mechanical and chemical resistances as well as the perfect sealing of the substrate.

RESOLTECH Decoflakes is delivered in a three-components kit :

- A **water-based epoxy primer** to seal the porous substrates (concrete, cement...).
- A clear epoxy coating system (resin and hardener).
- The flakes are available in a wide range of sizes, colors and finishes (golden, silvery, fluo...). It is also possible to blend different flakes to **customize your coating!**

The resulting coating will perfectly seal the treated substrate and give a UV resistance upon time. It is possible to apply RESOLTECH Decoflakes on **swimming pools, fish and aquatic plants ponds**.

APPLICATION

- It is recommended to store (at least 24h) and apply the products at a temperature between 18 and 25°C.
- A lower application temperature (15°C minimum) is possible but will increase the curing time.
- RESOLTECH Decoflakes should not be applied when humidity is above 70%.

1 Primer (may be optional depending on the substrate)

90% of the success of a coating application relies on the substrate preparation.

- The substrate must be sanded to strip the gelcoat, the paint or the filler then, dry and dust off the substrate.
- **On concrete and cement**, apply a first coat of water-based epoxy primer **1010/1014** using a roller at a rate of **0.1kg/m²** (coverage rate may vary depending on the porosity of the substrate).
- Caulkings, repairs and corners should be achieved with filler **RESOLTECH 8050/8058**.
- If the substrate color is different from the flakes color, **it is possible to dye the primer coat** with our epoxy pigment pastes (many RAL colors available).
Mix the pigment with the hardener 1014 then add the 1010 resin part and finish the mix.

Example : Mix 2kg of hardener 1014 + 0.4kg of PIG RAL xxxx
 Add 2kg of resin 1010 & mix
 Add 1 to 2kg of water & mix

For the next coats (decorative, closing & finish), use the following system:

Resin DECOFLAKES A + Hardener DECOFLAKES B

Kits are pre-measured. Pour the two components in a plastic bucket and mix thoroughly. To guarantee a perfectly homogenous mix, we recommend a double mix. Once the first mix is done, pour it in another clean bucket (make sure to scrape the sides of the bucket) and mix again during several minutes.

When the mix is achieved, transfer it in a flat bucket. It will decrease the reactivity of the mix, on the contrary, a narrow and high bucket will increase reactivity and the mix will harden in 10-15 minutes.

2 Decorative coat

- Decorative coat must be achieved between 8 to 12h (at 20°C) after the primer coat.
- Apply the decorative coat with a brush at a rate of **0.4kg/m²**.
- Right **after the application**, throw the flakes on the resin at a rate of 0.6kg/m². Using of a flake gun is recommended however, this step can be achieved by hand.



Flakes that fell on the ground can be re-used directly or later.

3 Closing coat

- Closing coat must be achieved **24h after step 2** without sanding nor degreasing.
- Use a block of wood in order to flatten the flakes on the coating once hardened.
- Apply the closing coat with a **brush** at a rate of **0.4kg/m²**. The use of a roller will generate bubbles and make the coating whitish.

4 Finish coat

- It must be achieved 24h after the closing coat.
- **Sand the whole surface** with a sanding machine until the surface is completely smooth and mat.
- Remove the dust.
- Apply the finish coat by **brush** at a rate between **0.2 and 0.4kg/m²**.



During all the described steps, it is compulsory to protect the pool or pond with a tarp in order to avoid dust, leaves, UV...

Wait 7 to 10 days (depending on the temperature) before removing the tarp and filling the pool or the pond, this will guarantee a complete hardening and the full chemical resistance.

PHYSICAL CHARACTERISTICS

1 Visual aspect

Decoflakes A :

Clear purple liquid

Decoflakes B :

Clear liquid

Mix :

Clear purple liquid

References	Decoflakes A	Decoflakes B
Density at 23°C	1.15	0.96
Mix density at 23°C	1.10	

ISO 1675, ± 0.05 tolerance

2 Viscosity

References	Decoflakes A	Decoflakes B
Viscosity at 23°C (mPa.s)	5000	70
Mix viscosity at 23°C (mPa.s)	700	

ISO 12058.2, ± 15% tolerance

REACTIVITIES

System	Decoflakes
Working time at 25°C on 7 kg	1h on 5cm*
Dry to touch at 25°C on a 0.5mm film	10h
Hard and sandable at 25°C on a 0.5mm film	24h
Full polymerization at 25°C on a 1mm film	12h40min

* Products should be used at a temperature around 18–25°C. A lower temperature will increase the viscosity as well as the gel time. On the contrary, a higher temperature will lower the viscosity and the gel time.

PACKAGING

Standard kit :

- Decoflakes A 5Kg in a 5L plastic jerrican
- Decoflakes B 2Kg in a 2L plastic jerrican
- Decoflakes 20Kg bag

QUANTITY REQUIRED

For a surface of **100 m²** :

- **Primer**, 2 kits of 4Kg of RESOLTECH 1010/1014.
- **Decorative coat, closing coat and finish coat**, 17 Kits of 7Kg of Decoflakes A et B, 3 bags of 20Kg of Decoflakes.

HEALTH & SAFETY

Skin contact must be avoided by wearing protective nitrile gloves & overalls or other protective clothing.

Eye protection should be worn to avoid risk of resin, hardener, solvent or dust entering the eyes. If this occurs flush the eye with water for 15 minutes, holding the eyelid open, and seek medical attention.

Ensure adequate ventilation in work areas. Respiratory protection should be worn with ABEKP coded filters.

Resoltech issues full Material Safety Data Sheet for all hazardous products. Please ensure that you have the correct MSDS to hand for the materials you are using before commencing work.

TRANSPORT & STORAGE

Shelf life is minimum one year in sealed containers as provided. Keep containers sealed and away from heat and cold preferably between 10°C and 30°C in a well ventilated area.

! The data provided in this document is the result of tests and is believed to be accurate. We do not accept any responsibility over the mishandling of these products and our liability is limited strictly to the value of the products we manufacture and supply.



249, Avenue Gaston Imbert
13790 ROUSSET
FRANCE

Tél. : +33 (0)4 42 95 01 95
Fax : +33 (0)4 42 95 01 98
export@resoltech.com