



ECOTAK

ABOVE GRADE, WATER-BASED, ZERO-VOC, ACRYLIC WATERPROOFING

ABOVE GRADE RE-WATERPROOFING SYSTEMS

Balcony and breezeway walkable re-waterproofing membrane



Ecotak is Kingfield's answer to costly balcony, exposed walking bridge, and breezeway repair. Ecotak is a fiber-infused, single component, zero-VOC, water-based coating that can be applied by Airless Sprayer, Brush, Roller, or Squeegee. Ecotak has an accelerated weather tested lifespan of 10 years with No Change, retains flexibility at low temperatures (-10°F), and comes in 5 colors: Green, Grey, Red, Sand, or White.

The fiber-reinforcement in Ecotak eliminates the need to embed a geotextile between coats and provides a strong, flexible, and resilient monolithic membrane that is highly resistant to pooling water, weather cycling, and UV degradation. It is also great for marine and industrial environments, and once the coating has cured, is immediately trafficable.

Ecotak can be applied directly to cleaned concrete and tile substrates, eliminating the need for costly tile or concrete removal. Ecotak can also be applied to modified bitumen and wood surfaces. The total minimum applied wet film thickness is 70 mils, about 35 mils per coat, with a dried film thickness of 50 mils.

Ecotak can be left exposed, or can have tile directly applied to the membrane. A minimum of 48 hours cure time is required for immediate application of tiles, and the surface will accept tiles up to 5 years after application.

YIELD
26.5 ft² per
Gallon

PACKAGING
1 gal -or- 3.75 gal plastic bucket
Pallet:
- 1 gal bucket – 20 boxes (4 buckets per box) – 880 lbs.
- 3.75 gal bucket – 48 buckets – 2115 lbs.

STORAGE
Store product in original
container well closed away from
sunlight in temperature
controlled location. Cover
surface of material with plastic if
used.
Storage Time: 12 months

APPLICATIONS

Balcony
Breezeway
Elevated Walking Bridge

KEY FEATURES

Tintable
Zero-VOC
Water-Based
Fast Dry Acrylic
Highly Weather & UV-Resistant

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KINGFIELD CONSTRUCTION PRODUCTS – 20 NORTH 4TH STREET, SUITE 300, MINNEAPOLIS, MINNESOTA 55401

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TECHNICAL DATA		
FEATURES		UNIT
Yield	2.0 kg/m ² in two coats	kg/m ²
Aspect	Semi-solid	-
Color	Green, Grey, Red, Sand, and White	-
Mixing water	If necessary, 5-10%	-
Minimum thickness	1.7	mm
Cure time per coat (T = 23°C/73.4°F; R.H. 50%)	4	hours
Application temperature	+35 (+5) – +95 (+41)	°F (°C)
Drying time (T = 23°C/73.4°F; R.H. 50%)	4	hours
Storage	12	months
Pot Life	12	months
Packaging	1 (5) or 3.75 (20) plastic buckets	gal (kg)

Tested Performance		Unit	Regulations	Results
Resistance to water penetration	Test passed	-	EOTA TR 003	waterproof
Flexibility to cold	-13 (-25)	°F (°C)	Internal method	-
Break Elongation	90 ± 10	%	ISO 527-1	-
Load resistance	4.0 ± 0.5	MPa	ISO 527-1	-
Adhesion test for direct traction on concrete	0.5	N/mm ²	EN 1542	Break type A/B
Weathering Test	1680 hours (10 years*)	hours	EN ISO 11507	Resistant
Viscosity at 73.4°F (23°C)	20000 + 5000	cPs	EN ISO 2555	-
Dry extract	73 + 2	%	EN ISO 3251	-

*1680 hours of weathering test correspond to about 10 years. This correspondence is merely indicative and it may considerably vary according to climatic conditions where the product will be used. The above data, even if carried out according to regulated test are indicative and they may change when specific building site conditions vary.

PREPARATION OF SUPPORT

The substrate must be completely hardened and resistant enough. The surface must be thoroughly clean, dry, without oils, greases, debris or detaching parts or other materials that may compromise the product adhesion.

If the support is crumbly in its entirety, totally scrape it until obtaining a good support and restore lesions or damaged parts with suitable mortar. Potential humidity and the vapor caused by radiation can compromise the adhesion of the applied products. In case of hydro-cleaning, wait for the complete drying of the support.

CONCRETE

In case of new realized cement substrate this must be sufficiently cured. In presence of lesions, holes, or irregular zones, restore them with suitable cement mortar. For a better adhesion on smooth and not moist concrete, it is possible to use *Grip Primer* (see technical data sheet).

On moist support, to avoid blistering or detachment phenomena, it is recommended the use of *Ecoprime CVB* (see technical data sheet) as primer. If the support is subjected to rising damp, it is necessary the use of *Ecoprime WP* (see technical data sheet). *Ecoprime WP* can also be used to fill little cracks. On rough concrete, use the primer *Ecoprime CVB* (see technical data sheet).

SMOOTH OR TILED SURFACES

Make sure that the tiles are well attached to the support, otherwise remove them, and restore them with a suitable cement mortar. The tiled surfaces must not present traces of detaching substances like greases, oils, chemical products etc. Carefully clean the support and treat the surface with *Ecoprime NPS* (see technical data sheet).

To fill joints between tiles and to create a perfectly levelled surface, apply *Ecoprime WP* (see technical data sheet). *Ecoprime WP* must be used even if the support is moist or if is affected by rising damp.

According to the wide range of tiles that can be found on the market, it is recommended to perform a test to verify the perfect adhesion of the system.

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BITUMINOUS OR SLATED MEMBRANE

Verify that the membrane has been applied for at least 6 months to avoid detachments caused by the release of oils.

Make sure that the overlaps are well attached; in case of detachments, weld them again with hot systems.

Restore potential holes or cuts, if present.

Carefully clean the membrane by removing potential varnishes or protective layers not well attached.

Consider the installation of appropriate ventilation chimneys, placed according to the humidity of the substrate. This measure is necessary in case of highly absorbent supports that hold moisture, such as lighten screeds with polystyrene or expanded clay.

Membranes that are worn-out or painted with varnishes well attached to the support should not be coated.

In all other cases, use the primer *Ecoprime SBS* (see technical data sheet).

In case of damaged membrane, restore it with sandwich system (*Ecotak + Versadex FB + Ecotak*) after having treated the surface with the primer.

The sandwich system must be used at overlaps or at those points where the membrane is more stressed.

MASONRY

If necessary, clean the surface with brushing. Control the condition of the masonry; restore damaged or not well attached bricks or stones.

METAL

Thoroughly clean the surface by removing the dirt and potential varnishes not well attached.

Before the application of *Ecotak*, treat the metal surfaces with *Ecoprime NPS* (see technical data sheet).

In case of rust, before the application of *Ecoprime NPS*, treat the surface with *Rust Shield* (see technical data sheet).

If the metal surface is painted, it is recommended to carry out a test to verify the perfect adhesion of the system.

WOOD

Carefully clean the surface by removing dust, crumbly and detaching parts. The wood must be completely dry, well resistant, and stable.

On not treated wood surfaces, *Ecotak* can directly be applied.

In all other cases, perform a preliminary test to verify the adhesion.

On wooden surfaces, matchboarding, plywood, or on supports with many joints, reinforce *Ecotak* with sandwich system (*Ecotak + Kingfield Approve Geotextile + Ecotak*).

FOR SUPPORTS NOT MENTIONED IN THIS TECHNICAL DATA SHEET, PLEASE CONTACT KINGFIELD TECHNICAL DEPARTMENT.

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TREATMENT OF JOINTS

Expansion, control, or insulation joints can be treated before or after the application of the waterproofing.

Joints must be filled with the Kingfield approved polyurethane sealant.

In the corner wall-to-floor, create a cove base, with the same polyurethane sealant product. When the sealant is dry, connection points must be coated with *Ecotak*, detailed with *Versadex FB* (see technical data sheet), and cover coated with *Ecotak*, applied by brush, creating a tank effect.

Treat points in contact with doorsteps or with windows with the polyurethane sealant.

MIXING

Ecotak is ready to use; before the application, it is recommended to mix it in order to make the product homogeneous. In extremely hot climatic conditions, it is possible to add 5% of clean water and keep mixing.

Never add other substances to the product.

APPLICATION

1. Wait for the complete drying of the primer used and apply a first layer of *Ecotak* by roll, smooth steel trowel, rubber spatula, water squeegee, airless machine, or by brush.
2. When the first layer is dry, apply a second coat of product to cross, completely covering the surface. Apply next layers until reaching the expected yield and with a minimum total wet film thickness of 70 mils (1.7 mm). In case of rain over not completely dry product, carefully verify the suitability of the next covering.
3. When *Ecotak* is dry (50 mil dry film thickness), it can be left at sight or it can be tiled. Glue tiles on *Ecotak* with a cement adhesive C2 class or higher class with improved performances. Before applying the tiles, wait for about 48 hours (at 73.4°F/23°C and 50% relative humidity).

DRYING TIME

At a temperature of 73.4°F/23°C and 50% relative humidity, the product dries in about 4 hours.

- Drying time is influenced by temperature and by environmental relative humidity and may significantly change.
- If applied in higher amount than the expected one, drying time can significantly increase.
- Once dry, *Ecotak* can be left at sight, it can be coated with tiles or its surface can be made anti-slip by covering it with a Kingfield approved acrylic anti-slip coating.

SUGGESTIONS

- Do not apply at environmental temperature or at support temperature lower than 41°F (+5°C) and higher than 95°F (+35°C).
- During summer season apply the product in the cooler hours of the day, away from sunlight.
- Do not apply with imminent threat of rain or ice, in condition of strong fog or in case of relative humidity level higher than 70%.
- Protect the product from pouring rain until the complete drying.
- It is very important to make, at regular intervals, appropriate expansion joints on the screed.
- Before the product application, it is recommended to cover each element that will not be coated.

CLEANING

Wash tools with water before product hardens.

HEALTH & SAFETY

While handling, always use personal protective equipment and respect the instructions described in product safety data sheet. See SDS.

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