



Kingfisher Product Data Sheet

Kolourseal - “Roof Coating”

Description

Kingfisher “Kolourseal” is an advanced high-bond, styrene acrylic polymer coating system specifically designed to renovate a variety of mineral based roofing materials, especially roof tiles and sheets. “Kolourseal” is micro-porous, allowing moisture vapour to pass through the film from the roof substrate to the atmosphere while remaining impervious to rainwater penetration. This permeability function prevents blistering, delamination and premature adhesion failure when the system is installed correctly. “Kolourseal” is also UV light resistant and thus combats the sun’s fading action, helping the coating to retain its colour over long periods. Installed under the correct conditions and procedures “Kolourseal” with its UV light protecting elements will provide long term weather protection for 10 years.

Companion / Related Products:

- Kingfisher “Bio-Wash”
- Kingfisher “Asbestos Sealer & Primer”
- Kingfisher “Parabond polymer sealant
- Kingfisher “Pointing Solution”
- Kingfisher “Weatherflex Stabilising Solution”

Refer to these individual product data sheets for detailed application guidance – published on our website www.kingfisheruk.com.

Uses

Domestic, commercial, agricultural and industrial buildings fitted with:

- Concrete Roof Tiles
- Clay Roof Tiles (except Rosemary tiles)
- Artificial Slate
- Asbestos Sheets & Tiles

If in doubt, please call our technical services department on 01229 869 100 for guidance. “Kolourseal” roof coating is for use on pitched roofs only.

Advantages

Ease of application by brush or high pressure spray

- Highly durable weatherproof finish with high UV resistance
- Extends roof surface life by 10 years

- Fibre encapsulating (for Asbestos Cement).
- Tools can be cleaned with soap and warm water after use.

Surface Preparation A (Concrete & Clay tiles only, for Asbestos skip to “B” below)

1. Clean the roof

To ensure that the coating bonds to the roof substrate, the surface must firstly be cleansed of all moss, mould, lichen, carbon deposits and airborne dirt. When cleaning concrete roof tiles, cement fibre or clay roof tiles, these should be thoroughly pressure washed using a commercial spec pressure washer, ideally with an output pressure of 2500 to 3000 psi and a spray lance equipped with a “rotary turbo-jet” nozzle (Note: If hiring a pressure washer, ask for a minimum 100ft /30m hose). You should always start from the ridge of the roof and pressure wash downwards. The lance should never be pointed up the roof as this will potentially jet water under the tiles and into the roof space. Before commencing pressure washing “bung” the gutter downpipes with a mesh filter or like prevent blockage to the roof drainage system.

2. Repairs

It is often only after cleaning that the full extent of required repairs becomes obvious. Replace cracked or broken tiles with new or good condition weathered tiles (sometimes a better match!) and re-point ridges, hips and verges as required. All repairs / re-pointing works to ridges, hips etc. should incorporate Kingfisher “Pointing Solution” in the mortar mix (in place of standard cement plasticiser) to reduce cracking, improve flexibility and enhance the longevity of the repair. We recommend a minimum interval of 24 hours should be allowed for mortar repairs to achieve initial cure before proceeding to coating and these repairs MUST be treated with Kingfisher “Weatherflex Stabilising Solution” before the “Kolourseal” is applied. The stabilising solution neutralises the alkalinity in the cement and prevents the fresh coating from delaminating as the new mortar cures through. This unfortunate chemical reaction can be seen on many poorly executed roof coating projects where paint has flaked off along the ridge mortar or hip beds!

3. Biocidal Wash Treatment

After cleaning (once dry) the roof should be sprayed with Kingfisher “Biocidal Wash”. This is applied by low pressure sprayer (as for weed killer etc.) to the entire roof surface and is left to dry out (do not rinse). This is an extremely important phase in the renovation process because this will greatly reduce the possibility of moss or lichens re-growing under the new coating. The pressure washing process leaves the roof looking clean and usually a 100% better than before, but the moss root systems and mould/lichen spores are still present in hundreds of microscopic crevices e.g. between tiles. Spraying the roof liberally with Kingfisher “Biocidal Wash” ensures that the roof surface is sanitised and inert, ready for the first coat of “Kolourseal” roof coating.

Surface Preparation B (Asbestos)

1. Pre-treat roof with “Bio Wash” (kills moss, green mould & lichens).

Liberally spray the entire roof surface with Kingfisher “Bio Wash” using a low pressure sprayer (as for garden weed-killer) and leave for seven days to activate. This effectively sanitises the roof surface by killing the obvious areas of growth as well as the hidden spores buried deep in the substrate and overlap joints.

2. Clean Roof (remove debris)

Thoroughly damp the roof by mist spraying with water (suppresses release of harmful fibres) and brush/

scrape the dead moss and other surface dirt and laitance into bags for disposal as AC waste. Alternatively, for larger areas the “closed box” pressure washing method described in HSE doc A12 can be used but the waste sludge and water run-off must be collected in the gutters and down pipe. This involves diverting all run off into one down pipe usually temporarily modified on site to divert the water into a mobile water filtration system. Allow to dry.

Note: DO NOT pressure wash asbestos with a lance attachment as this may result in the uncontrolled release of potentially harmful asbestos fibres. There is a highly informative two page document covering this on the HSE web site, reference number A12 which can easily be downloaded for your further reference.

3. Repair Roof

General: Sealers and coatings should only be applied to essentially “sound” roofs so a pre- inspection of the roof structure and surface condition should always be undertaken by a competent person (e.g. experienced roofing contractor or structural engineer) before commencing works. This will determine whether the supporting steel / timbers need repair and identify any cladding / roof sheets which are damaged or decayed beyond practical repair and therefore need complete replacement. In addition, this inspection will typically inform the competent person’s choice of access equipment to be used for safe execution of the works.

Minor Repairs: Any minor cracks or holes, especially around fixings can be filled with “Parabond” hybrid polymer sealant. Cracks of up to 3mm can be successfully filled by applying a bead of “Parabond” along the crack and then pressing / smearing it firmly into the damaged area. We recommend wearing disposable latex gloves for this task as the hybrid polymer, whilst neutral in its formulation is very highly adhesive! “Parabond” is fully over-paintable once cured but try to avoid applying primer to it. Note: Kingfisher “Multi-task” wipes are formulated to quickly remove “Parabond” from skin and tools before it cures.

Larger Repairs. Bigger cracks or holes can be bridged with “Kingfisher Fibre Seal” – a thixotropic fibre reinforced roofing compound & “Kingfisher Scrim Mesh”. Apply one coat of “Fibre Seal” to the affected area and bed the fine mesh into the “Fibre Seal”, then leave to cure. Once cured apply a second coat over the mesh. Avoid applying the “Asbestos Primer” to this repair and leave for a minimum of 2 days before applying “Kolourseal” or “Asbestos Roof Coating”.

4. Prime Roof

Apply one coat of Kingfisher “Asbestos Sealer & Primer” by brush or spray. DO NOT over apply. Brush out any runs which may occur. The material should have soaked into the surface after approximately 20 minutes. Drying time will vary depending on the surface porosity and ambient temperature, but normally 4 – 8 hours should be allowed for each coat to fully dry. However, it is better to apply subsequent coats of “Kolourseal” or “Asbestos Roof Coating” whilst the primer still has a slight “tackiness” as this aids adhesion.

Application

Apply 2 x coats of “Kolourseal” by brush or airless spray. If applying by brush use a high quality masonry paint brush, working in broad even strokes, taking care not to over-apply. Pay close attention to sheet edges and corners ensuring that the coating is worked well into all crevices and joints.

If applying by high pressure spray, we recommend a typical GRACO 4900 or 5900 series airless sprayer with the pressure set at 2500 psi and fitted with a 517 nozzle tip blade (17 thou) for optimum performance.

Ensure that roof-lights and vents etc. are protected from over-spray and take precautions to avoid spray drift contamination of vehicle finishes in the vicinity.

Apply only in dry conditions to a dry surface, with no rain expected for at least 24 hours post application. As with all water based treatments, please be aware that you need to plan any exterior works to allow sufficient drying time for the product to cure before the evening dew point, especially in the shorter days of Autumn and early Spring (Winter application in U.K / Northern Europe should be limited where possible). On a roof surface warmed by the summer sun "Kolourseal" will dry in under an hour, permitting two coats to be applied in one day whereas in cooler months initial cure may take 4 hours so only one coat is possible.

DO NOT apply at air or surface temperatures below + 7 °C or in high humidity.

Coverage

5 - 6 m² per litre depending on the porosity of the surface.

Product Data for Kolourseal

Appearance	Matt finish
Coverage	5 – 6m ² / litre per coat
Initial Cure	1 – 4 Hours @ 20 °C
Full Cure	24 Hours @ 20 °C
Application temperature	+7 °C to +35 °C
Service Temperature	-20 °C to +50 °C

PACKAGING/COLOURS

Kingfisher "Kolourseal" is supplied in durable 20Kg polypropylene buckets complete with airtight snap ring seal so they don't leak or break easily in transport. The bucket shape is compatible with most "high boy" configuration commercial paint spraying equipment. We also have a full range of colour testers in 75ml size.

Note: Remember computer screens and printers do not interpret colour consistently so we recommend that you order a tester before making your final colour choice.

STORAGE

Store in original packaging in a cool dry place, out of direct sunlight and protect from frost. Note: Once frost damaged the product is unusable (this will be immediately apparent if any attempt is made to apply it!) and cannot be recovered by warming up or any other means.

SHELF LIFE

The product has a shelf life of 12 months from the date of manufacture, subject to correct storage conditions.

HEALTH & SAFETY

- If applying by spray wear a face mask (FFP3).
- When preparing and cleaning the surface wear a face mask (minimum FFP3).
- Wear disposable gloves and overalls during preparation and application.
- Avoid contact with skin and eyes.
- If contact occurs wash immediately with plenty of water.
- Keep out of reach of children.
- Ensure good ventilation during application and drying.
- Always dispose of empty packaging responsibly.

The product is non-hazardous in normal use.

Note: Working at height is hazardous and AC (Asbestos Cement) roofs in particular can be very fragile and must only be accessed with caution using the correct weight spreading crawler boards, harnessing etc. We are primarily coatings manufacturers NOT Health & Safety advisors and as such we do not offer definitive guidance on “working at height” or “working with asbestos”, so we recommend that you consult a competent person or Health & Safety professional before commencing any roofing works.

Before using this product read the Material Safety Data Sheet which can be obtained at www.kingfisheruk.com or by calling the Kingfisher Technical Dept. Tel: 01229 869 100.

The information given in this product data sheet is given in good faith, based on current knowledge and experience. It relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of the company’s knowledge and belief, accurate as of the date indicated. All recommendations are made without warranty or guarantee, as to accuracy, reliability or completeness since the conditions of use are beyond our control. It is the user’s responsibility to satisfy themselves as to the suitability and application of such information for their own use.