

DEK-KING®

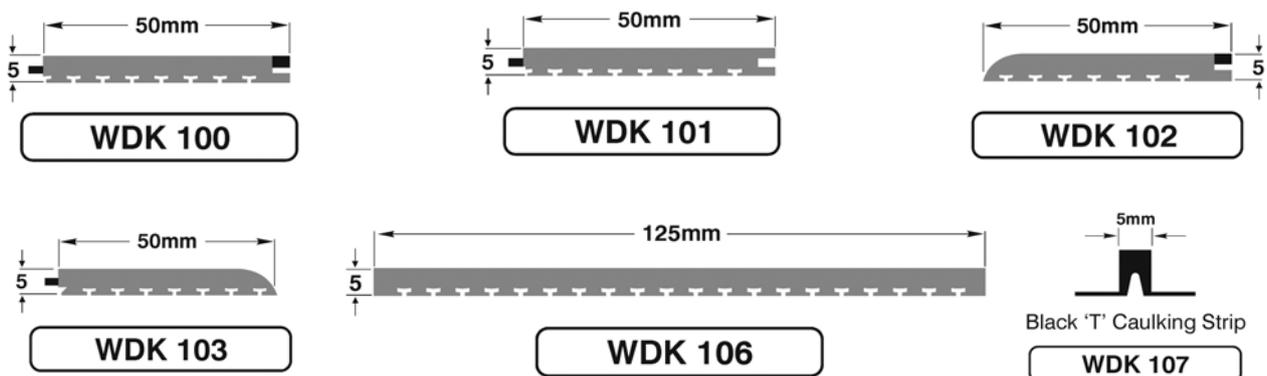
Introduction

DEK-KING® by Wilks is the ultimate alternative to teak decking and can be easily fitted by the amateur and professional alike. Simply join the **DEK-KING®** strips together using the tongue and groove joint and Stelmax adhesive to create a continuous area of decking ready to be adhered to your deck.

The material used for **DEK-KING®** is of an outdoor grade PVC that is UV stabilized and contains a colour fast pigment and inbuilt graining effect that is totally convincing and will therefore retain its classic looks for many years. Combined with the integral dark caulking edge and the distinctive black **DEK-KING®** tongue, the result will look like a traditional craftsman laid deck.

Profiles

A range of profiles are available, see below, finished with a non-slip surface and the underside has a 'Scotchbrite' finish allowing the adhesive to bond firmly with the **DEK-KING®** and deck. **DEK-KING®** can be fixed to almost any surface including GRP, Steel and Timber.



Extrusions are generally supplied in 2.25m lengths and 10m coils. 9 x 2.25m lengths will cover 1m², 1 x 10m coil will cover 0.5m².

DEK-KING® weighs approximately 6kg per 1m².

Adhesives

We supply two types of adhesive, Stelmax and Sealtack 750.

Stelmax adhesive is used to join the strips of **DEK-KING®** together and is supplied in a 135ml tube that will bond approximately 2m² of tongue and groove joint.

Sealtack 750 is a high tack MS-Polymer adhesive used to bond **DEK-KING®** to the required surface and has a shelf life of 15 months in unopened packaging. Sealtack 750 is supplied in 600ml Sausages that will bond approximately 1m² of **DEK-KING®**. Minimum working temperature is 10°C and will be tack free after approximately 4 hours, load bearing strength in 12-24 hours and full strength in 2-3 days.

We recommend that protective clothing, gloves and safety goggles are used when applying adhesives.

Sealtack Data Sheets available at <http://www.saba.nl/en/producten.php?id=578>

Stelmax Data Sheets – see last 2 pages.

Installation Guide

Tools

Craft Knife
General Woodworking Tools
Tape Measure
Masking Tape
Marker Pen
Heat Gun
Adhesive Spreader
Cardboard or Waxed Paper for Templates



Preparation

All surfaces should be made sound and be as flat as possible, any irregularity in deck levels should be filled and smoothed, as any difference in deck levels will show after laying the decking, after sanding ensure that all surfaces are dry and free from dust.

A working temperature of 10°C to 25°C is required. **DEK-KING®** should not be laid in wet or damp conditions as this will affect the adhesive bond.

Templates

For difficult areas a template can be built up in sections and taped together to make a complete pattern as illustrated below.



1) Project Boat



2) Start to make up Template



2a) Template



3) Template taped



4) Final Template

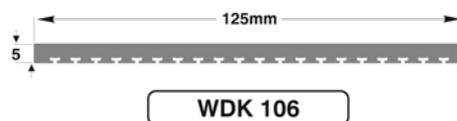
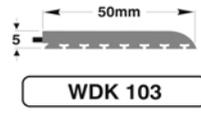
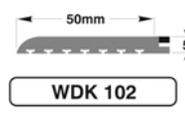
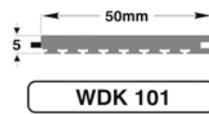
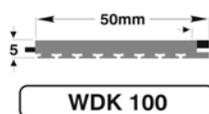
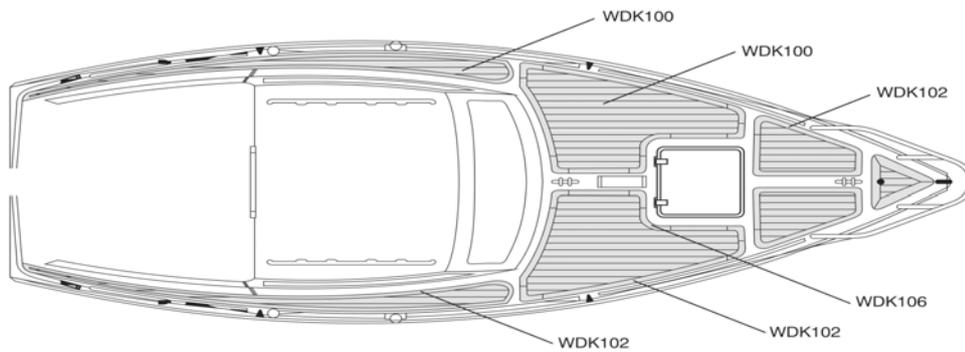
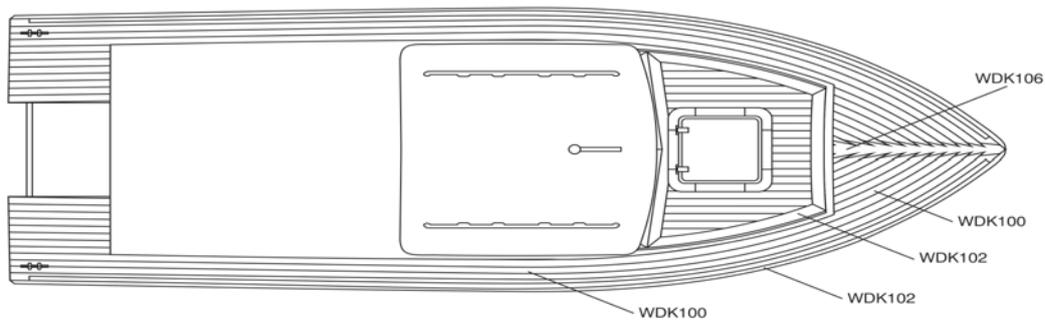
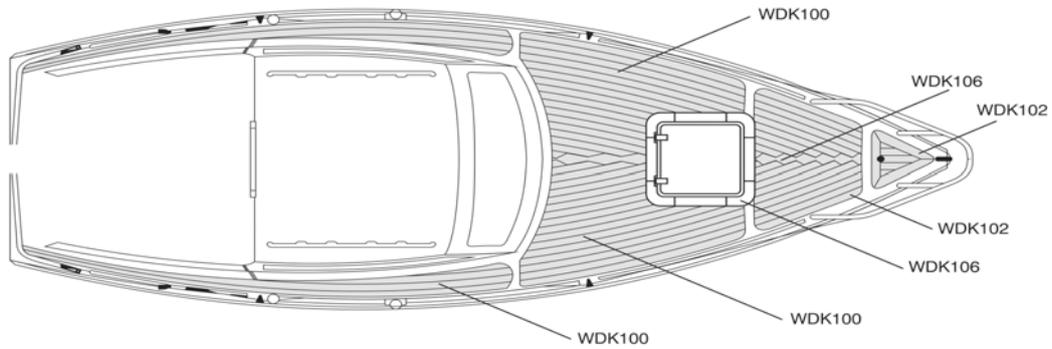


5) completed mat

Once the template has been made sections of the **DEK-KING®** can be glued together to make a complete mat that can be laid in one operation (see diagram 5).

Margins and King Plank

Having decided on the type of margin you would like to use (WDK103, WDK102 or WDK100). You now have to cut and dry lay the margins including King Planks (WDK106), hatch corners and deck margins as shown below. A hot air gun may be used to help the **DEK-KING**[®] bend to follow the outer curve of the deck.



When the margin is dry laid scribe a line along the deck following the margin edge, tape this edge so that any excess adhesive is easily removed before the next operation, the same procedure applies for the King Plank.

Apply the adhesive, lay the **DEK-KING®** margin and King Plank removing the tape and excess adhesive as below.



Margin taped and Adhesive applied.



Margin in place



Tape and excess adhesive removed



King Plank taped and adhesive applied



King Plank being laid

Filling in straight runs

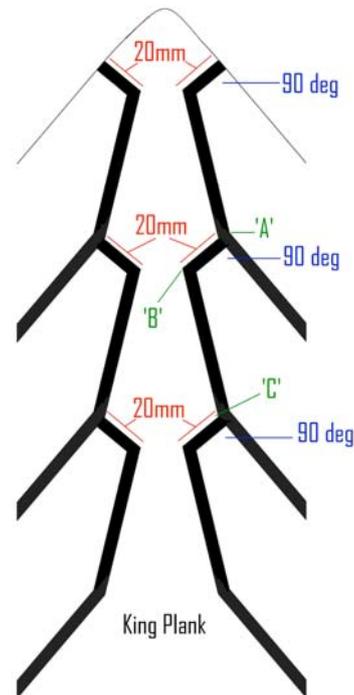
Once the margins and King Plank have been laid the remainder of the **DEK-KING®** can be fitted. This can be achieved by joining lengths of **DEK-KING®** (WDK100) together to form a mat that can be laid in one operation. Keep the **DEK-KING®** weighted after rolling – any heavy item can be used for this purpose i.e. sandbags, paint pots, bricks etc.



Four lengths of WDK100 joined together with Stelmax and laid in one operation. Once in place this is rolled to ensure no air bubbles and good seating on to the adhesive.

Filling in swept runs

To fit a swept layout, the King Plank is laid first along with the deck margins. Once the King Plank adhesive is set, the infill (WDK 100) can be dry laid leaving the planks to overlay the King Plank. These end pieces now need to be cut into the King Plank using the information from the diagram below.



King Plank Fitting

This operation is done with the King Plank adhered to the deck and the adhesive set. The infill plank, WDK 100, needs to be marked where the top edge intersects with the King Plank ('A'). From this point measure 20mm at right angles in towards the centre of the infill plank ('B') and mark. From this mark scribe a line to where the bottom edge of the infill plank intersects the King Plank ('C'), draw a line to connect 'A', 'B' and 'C', this will give the correct shape. Before cutting, decide at this time if you wish to give the angles a radius for a stylish shape. Having cut the end to shape now draw the end shape onto the King Plank as a guide line. You now have to measure 5mm from the guide line towards the centre of the King Plank, this will be the cutting line and should leave a 5mm gap between the end of the infill plank. Remove the section of King Plank with a Craft Knife and chisel for the part adhered to the deck. The 5mm gap will eventually be filled with caulking strip, WDK 107, or Sealtrack 750 adhesive.

Hatch Corner and Curved Corners

Fitting around hatch corners can be achieved by first taking a template of the corner to be cut (Fig 1). Use this template to cut out the corner shape from the King Plank (Fig 2), it may be necessary to join two King Planks together if a large radius is required.

Cut all corners from the King Plank and infills from the WDK 100 (you may have to remove the black tongue from the WDK 100). Cut the required length of 'T' Caulking (fig 3 and 4). Join all components together using Stelmax (Fig 5). Note that in figure 5 the base of the 'T' caulking has been mitred to help fit the bend of the corner. Normal deck runs can then be laid in the normal way up to the hatch (Fig 6)

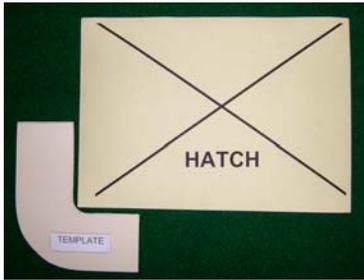


Fig 1 – Cutting Template



Fig 2 – Cutting corner from King Plank

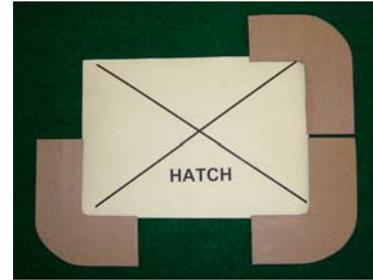


Fig 3 – Pre-cut corners

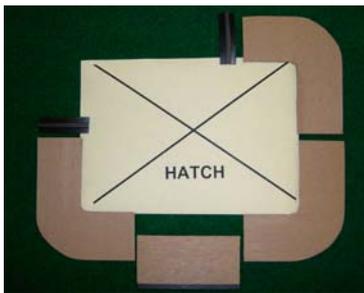


Fig 4 – Pre-cut Caulking and Infills



Fig 5 – All components joined with Stelmax adhesive

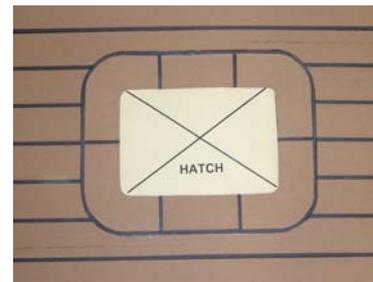


Fig 6 – Completed Hatch

General Care and Maintenance

Once your deck has been laid it will only require minimum maintenance. A general wash with soap and water will remove most stains. For stubborn stains a power wash is advisable.

Should your **DEK-KING®** receive any surface damage this can be rectified by using a belt or hand sander with 40 grit paper sanding in line with the grain.

If a section of **DEK-KING®** is badly cut it is possible to chisel out a section and replace with new **DEK-KING®**.

Do not use Acetone on any **DEK-KING®** product, as this could result in permanent damage.

Should you at any time have a query with fitting or maintenance please contact us on 01621 869609 where a member of our staff will always be available during office hours with advice

STELMAX

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Safety data sheet

Identification of preparation: Adhesive 1985

Composition/Information: Tetrahydrofuran <75%

Hazards Identification: Highly flammable solution, may form explosive peroxides. Solution irritating to eyes and respiratory system.

First Aid Measures

Eye Contact: Irritant. In case of contact, irrigate immediately with plenty of water and seek medical aid.

Skin Contact: May irritate. It may be absorbed through the skin causing systemic effects. If spilled on skin, wipe off excess and wash with soap and water.

Inhalation: Irritant. May cause narcosis and systemic effects. Avoid high concentrations, ventilate area well. If effected by vapour, move to fresh air and seek medical aid if symptoms persist.

Ingestion: In case of ingestion, wash out mouth with water and, give plenty of water to drink. Do not induce vomiting. Seek medical attention immediately. If unconscious, turn on side.

Fire Fighting Measures

Extinguishing Media: Alcohol resistant foam, dry chemical or vaporising liquid. Earth/sand for small fires.

Unsuitable extinguishing media: Water Jet.

Fire and Explosive Hazards/Harmful Combustion Prods: The vapours form readily ignitable and explosive mixtures with air at normal temperatures. The vapour is heavier than air and may travel along the ground, hence distant ignition is possible. Incomplete combustion may generate toxic fumes of carbon monoxide. May form organic peroxides.

Special Fire Fighting Procedures: Keep containers cool with water spray. Self contained breathing apparatus and protective clothing should be worn (see exposure control).

Accident Release Measures

Eye Protection: Solvent resistant goggles if risk of splashing.

Skin protection: Solvent resistant gloves neoprene or nitrile rubber. Impervious boots and polycotton overall.

Ventilation: Good local.

Respiratory Protection: Vapour respirator if no ventilation.

Spillage or Leak Procedures: Absorb on sand or earth. Extinguish all sources of ignition. Ventilate area. Do not allow to enter drains. Evacuate personnel from the area.

Handling and Storage: Wear appropriate protective clothing (see exposure controls). Avoid all sources of ignition.

No Smoking. keep containers tightly closed. Store in a cool, dry, well ventilated area, away from incompatible chemicals or materials (see stability and reactivity).

Exposure Controls/Personal Protection

Occupational exposure limit EH 40/99

Component LTEL STEL

Tetrahydrofuran 100 ppm 200 ppm SK (can be absorbed through skin)

Personal Protection: Avoid inhaling vapour. Avoid contact with skin and eyes. Eye baths should be provided in places where exposure may be possible. Wear chemical resistant goggles, solvent resistant gloves (neoprene or nitrile rubber). impervious boots and polycotton overalls. if high vapour concentrations are present, self contained breathing apparatus, or full face respirator with organic vapour cartridge NPF 20. Ensure good ventilation.

Physical and Chemical Properties: Appearance/Odour Viscous solution of PVC resins in tetrahydrofuran solvent with characteristic ethereal odour.

pH N/A

Boiling Point 65 – 67°C

Melting Point N/A Flash Point –27°C

Flammable/Explosive Limits LEL 1.8% (v/v)

UEL 11.8% (v/v)

Auto Flammability 324°C

Oxidizing Properties None

Vapour Pressure N/A

Specific Gravity 0.9

Water Solubility Solvent is miscible

Volatile content by weight <75%

Stability and Reactivity: Avoid contact or storage with oxidising agents (peroxides, nitrates etc.).

Toxicological Information: Irritating to eyes and respiratory tract, may cause systemic effects: narcosis, nausea, headaches and vomiting. It may be absorbed through the skin causing systemic effects.

Avoid exposure to vapour.

Ecological Information: Mobility N/A Biodegradability N/A

Bioaccumulation N/A Aquatic Toxicity N/A

Disposal Considerations: According to local regulations for flammable substances.

Transport Information

Carriage Classification: Flammable liquid Packing Group: II

ADR/RID: 3 IMO Class: 3.1

U.N.No: 1133 Hazchem code: 3(Y)E

Regulatory Information

Classification: Highly Flammable, Irritant

Symbols: F, Xi

Risk Phrases: R11: Highly Flammable. R19: May form explosive peroxides.

R36/37: Irritating to eyes and respiratory system.

Safety Phrases: S16: Keep away from sources of ignition – no smoking. S29: Do not empty into drains. S33: Take precautionary measures against static discharge.

Other Information

N/A: Not applicable

Issued: 21 October 1999 Revision Number: 3 Issued By:

The information and recommendations contained herein are based upon present data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information