



HK Stain 3 in 1 [plus]

Fast-drying premium wood protection stain with reduced solvent content and enhanced moisture protection for exterior wood



Colour	Availability					
	Quantity per pallet	672	200	96	30	22
	Size / Quantity	3 x 0,75 l	2 x 2,5 l	2 x 5 l	10 l	20 l
	Type of container	Tin bucket	Tin bucket	Tin bucket	Tin bucket	Tin bucket
	Container code	01	03	05	10	20
	Art. no.					
light oak (RC-365)	5431	■	■	■	■	■
clear	5432	■	■	■	■	■
pine (RC-270)	5433	■	■	■	■	■
nutwood (RC-660)	5434	■	■	■	■	■
palisander (RC-720)	5435	■	■	■	■	■
stone pine/larch (RC-260)	5436	■	■	■	■	■
teak (RC-545)	5437	■	■	■	■	■
rustic oak (RC-360)	5444	■	■	■	■	■
mahogany (RC-565)	5446	■	■	■	■	■
white (RC-990)	5451	■	■	■	■	■
chestnut (RC-555)	5453	■	■	■	■	■
ebony (RC-790)	5454	■	■	■	■	■
fir green (RC-960)	5455	■	■	■	■	■
special colours	5443		■	■	■	■

Application rate



Approx. 100 ml/m² per coat, at least 2 coats required

Planed or very thick woods are less absorbent and may require a third coat

Range of use



- For use on exterior wood
- Wood without ground contact
- Wood building elements with no dimensional stability: e.g. fences, framework, carports, planking
- Wood building elements with limited dimensional stability, e.g. folding shutters, matchboarding, summerhouses
- Dimensionally stable wood building elements (when used as a primer only): e.g. windows and doors
- Primer, intermediate and finishing coats
- Not suitable for coating flooring (terraces, wooden decking, etc.)

Property profile



- 3 in 1: impregnation, primer and stain
- Protects wood from moisture and UV radiation
- Impregnation effect: saturates wood to protect against moisture
- Diffusion-open protective film: moisture can escape
- Water-repellent: wet surfaces dry quickly
- Protection against weathering (constructive protection and the protection provided by the product) reduces the risk of blue stain and rot
- Film protects coating against blue stain, mould and algae
- Quick drying: 2 coats can be applied in one day
- Uniformly matte surfaces in brilliant colours
- Environmentally compatible thanks to reduced solvent content



- Long-term protection with uniform weathering and no flaking
- Subsequent treatment can be applied without sanding first
- Low-build stain

Characteristic data of the product

Binder	Acrylate/alkyd system
Density (20 °C)	Approx. 1.03 g/cm ³
Pigmentation	Lightfast, highly transparent pigments
Odour	Mild, odourless once dry
Degree of gloss	Matt

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Additional information

- [Sustainability Data Sheet](#)
- [Colour chart](#)

Preparation

■ Substrate requirements

The substrate must be clean, dry, free of dust, grease and loose substances, and prepared in the correct manner.

Dimensionally stable wood building elements: wood moisture content 11-15%

Wood building elements with limited or no dimensional stability: wood moisture content max. 18%

■ Substrate preparation

Completely remove old coatings (e.g. paints or medium-build stains), bark, bast and dirt.

Remove loose and torn knots as well as resin that bleeds and clean with a suitable product (e.g. Remmers thinner & brush cleaner).

Carefully sand planed wooden surfaces (P100–P120) before the first coat to ensure good adhesion and material absorption.

Sand down greyed and weathered wooden surfaces down to the stable substrate (P80–P120).

Sand down any intact old coating and intermediate coating (P180–P240).

Remove all sanding dust.

Observe BFS Code of Practice No. 18 "Coatings on Wood and Wooden Working Materials in Outdoor Areas".

Directions



■ Conditions for use

Temperature of the material, air and substrate: from min. +8 °C to max. +25 °C.

Stir well.

Apply by brush.

Apply in the direction of the grain.

Apply a second coat once the first has dried and after intermediate sanding.

When coating continuous surfaces, only use materials with the same batch number as slight differences in colour, gloss and texture may occur.

Seal opened containers well and use contents as soon as possible.

Tips on use



Check colour, adhesion and compatibility with the substrate by setting up a trial area.

Before coating technically modified woods and wood-based materials, apply the product to a trial surface and conduct a suitability test on the desired area of use.

If the surface is overcoated with other products it is recommended to test the adhesion to the substrate.

Clear, white and hemlock are suitable for use only on not directly weathered surfaces in outdoor areas, such as roof eaves, or as base coat.

Due to the different covering properties of white and pastel varnish colours, the optical appearance may vary depending on the substrate. It must be checked in advance whether discolouration of the varnish may occur due to substances contained in the wood.

Due to the low UV protection of these colour shades, shorter maintenance intervals must be expected.

In order to take account of and clarify these issues, a trial surface must be prepared in order to ensure that the surface meets expectations.

Rainfall may cause water soluble substances to bleed from wood that is rich in such substances, e.g. oak, red cedar, afzelia, redwood, etc. This may lead to the discolouration of light-coloured masonry or render.

Pre-testing is recommended also on other woods.

In order to avoid the use of wood preservatives as far as possible, the construction should be designed to be water-repellent (avoid horizontal surfaces, open end-grain wood, capillary joints, water and moisture pockets, splash water contact, sharp edges). If this cannot be guaranteed or if an even higher level of protection is required outdoors, the untreated wood can be impregnated with Wood Preservative Primer* (*Use biocides safely. Always read the label and product information before use).

Cut end-grain surfaces at the bottom to create a water-drip edge.

End-grain and cut surfaces should then be protected from moisture with end grain protection.

Each layer of stain results in a more intense colour and a glossier finish.



■ **Drying**

Dust-dry: after approx. 1 hour

Can be overcoated: after approx. 2-3 hours

Practice values at +20 °C and 65% relative humidity.

Low temperatures, poor ventilation and high humidity delay drying.

■ **Thinning**

Ready to use

Notes

On planed larch and softwoods with a high resin content, the coating may have reduced adhesion and resistance to weathering. This is especially the case on horizontal year rings, knots and areas of winter growth that are high in resin. Maintenance must be carried out more frequently on these surfaces. The only remedy for this is pre-weathering or very coarse sanding (P80). If these wood types are rough-sawn, considerably longer maintenance intervals are to be expected.

Tools / Cleaning

Brush with synthetic bristles

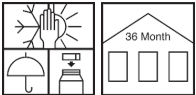


Clean tools immediately after use with water and detergent.

Ensure that any residue from cleaning is disposed of correctly.

Storage / Shelf life

At least 36 months in unopened, original containers stored cool, dry and protected from frost.



Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Disposal

Larger product residues must be disposed of in the original packaging in accordance with the applicable regulations. Do not pour liquid coating or residues down the drain, even when cleaning tools. Must not be disposed of with household waste. Completely empty packaging must be recycled.

Biocidal Products Regulation

Contains as "treated goods" a biocidal product (film preservative) with the biocidal active agent 3-iodo-2-propynyl butylcarbamate to protect the film from contamination by microbial organisms (algae, mould etc.). Always follow the directions carefully!

Contains as "treated goods" a biocidal product (in-can preservative) with the biocidal active agent(s) reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) and 1,2-benzisothiazol-3(2H)-one to protect the container contents from spoilage due to microbial organisms (bacteria, yeast etc.). Always follow the directions carefully!

VOC content as per the "Decopaint" Directive (2004/42/EC)

EU limit value for the product (Cat. A/e): max. 130 g/l (2010).
This product contains < 130 g/l VOC.



Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.