

KP-14 Vapor Permeable Barriercoat: Low-VOC protective coating for cross laminated timber subject to wet conditions. KP-14 aggressively protects from water absorption while maintaining vapor breathability similar to bare wood. Moisture entrapment and therefore mold resistance will be reduced compared to plastic or polymer based membranes. KP-14 can be field or factory applied to the necessary protection level required.

FEATURES

- Protects wood and prevents weathering and water absorption during installation
- High water repellence with water absorption less than 150g/m²
- High vapor permeability (over 15 perms)
- Vapor absorption desorption efficiency of 90% comparable to the 92% efficiency of bare wood
- High Durability
- Reduces water absorption by 85%
- Vapor barrier maintains breathability of bare wood

IMPORTANT

Product Data Sheets are based on "ideal" work conditions. Due to wood variability and varying environmental conditions, it is strongly recommended that the end-user needs to determine that the application conditions, coating product system, and techniques are suitable to reach the desired results. Please see Conditions of Sale.

APPLICATIONS

Use Sansin KP-14 on exterior timbers, dimensional laminated lumber and engineered wood components like CLT to protect surfaces from moisture absorption.

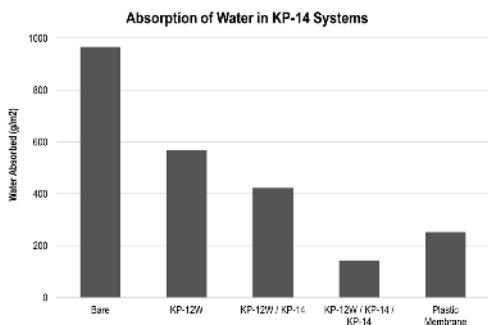


Figure 1: A graph showing the water permeability of KP-12 and KP-14 systems according to EN927-5.

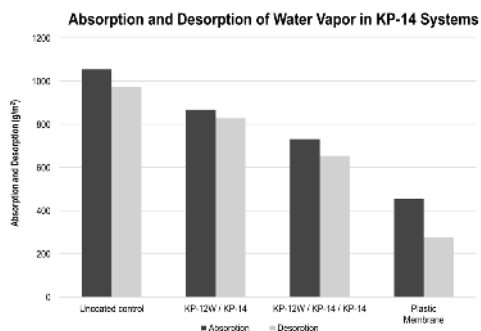


Figure 2: A graph showing the water vapor absorption and desorption of KP-12 and KP-14 systems according to EN927-5.

Coating	% Vapor Absorption/Desorption Efficiency
Bare	92.2
KP-12W / KP-14	95.4
KP-12W / KP-14 / KP-14	89.3
Plastic Membrane	60.7

Figure 3: A table of the water vapor absorption and desorption efficiencies of KP-12 and KP-14 systems

CHARACTERISTICS: KP-14

- AppearanceClear
- OdorLow
- FormLiquid
- Specific Gravity1.01-1.03
- Density8.3-8.6lbs per Gal
- pH (approx).....8.8 min
- Viscosity.....15-18 Z#3
- Solvents.....Water
- Diluent.....Water
- Cleanup..... Soap and Water
- Drying Time (to touch) @20°C (68°F).....<2 hours at 50% humidity
- Drying time (to Recoat) @20°C (68°F).....6 hrs
- Coverage300 sq.ft./US Gal
- VOC (g/l).....Actual – 25.1/Regulatory – 86.3

PACKAGING

5-Gallon pails, 1000 litre totes, bulk.

PREPARATION

PREPARATION IS KEY TO A SUCCESSFUL PROJECT

- Inspect the entire surface for defects and deterioration. Repair and replace defects where necessary.
- Sand wood surfaces to achieve a clean, even surface with 60-80 grit paper using variable speed random orbital sander.
- Radius corners and remove any sharp edges to improve abrasion resistance.
- Follow with an appropriate cleaning method such as vacuum or compressed air.
- Coat all surfaces with the penetrating first coat KP-12W to the point of saturation
- Apply an extra coat of KP-12W to the end grain for improved water-repellent efficiency where necessary

APPLICATION METHODS

KP-14 can be applied by spray, roller or brush.

KP-14

ENVIRO STAIN®



KP-14



WORKING PROCEDURE

- Stir product well before use and regularly during use.
- Apply a manageable film thickness
- Allow 4-6 hours of drying time @ 20°C (68°F)
- Apply a second and third coat if necessary. Follow the above procedures. Ensure an adequate dry film thickness of at least 3 mils for optimum protection.
- Do not apply in heat of day or direct sunlight
- Do not apply on wood that is warm to touch
- Do not apply if rain or near freezing temperatures if expected.
- Apply in proper conditions, ideal temperature of 10-23° C (50-75° F) with relative humidity of approximately 50%
- Do not apply on bare wood without KP-12W

STORAGE

Shelf life when stored at ideal conditions is 12 months. Store at a temperature of between +5°C and +25°C (41°F and 77°F). Keep containers tightly closed. For tank treatment, cover the dipping tank when not in use to prevent the evaporation of the VOC.

SAFETY

See Material Safety Data Sheet.

WARNING TO USERS

Keep out of reach of children, if swallowed immediately drink two glasses of milk or warm water. Do not induce vomiting. Call physician immediately. Avoid contact with skin or eyes; flush with soap and water. Avoid breathing of vapor or mist. Wear a properly fitted NIOSH approved respirator. The information contained in this document is given in good faith based on our current knowledge. The use of the product is beyond the control of The Sansin Corporation, and no guarantees, expressed or implied, are made as to the result to be obtained if not used in accordance with the published Directions for Use. The Sansin Corporation does not assume any legal responsibility for use or reliance on same. This information must on no account be used as a substitute for necessary field tests, which alone can ensure that the product is suitable for the expected use. Before using any product, read its label.

CONDITIONS OF SALE

The only obligation of the manufacturer and seller shall be to replace such quantity of Sansin product that is proven to be defective. Proof of purchase is required. Seller or manufacturer shall not be liable for any loss or damage connected with the use and/or handling of this product. All labor costs are specifically excluded. User should determine suitability of product for the intended use before application. User assumes all risk and liability in connection therewith. This warranty is expressly made in lieu of any and all other rights, warranties, conditions and remedies, express or implied, including but not limited to any implied warranty or condition of merchantability, fitness for a particular purpose, and any warranty or condition arising out of a course of dealing, a custom or usage of trade. If any distributor or seller of product offers warranties or remedies which differ from those offered by Sansin, Sansin accepts no responsibilities for such warranties or remedies.