

## Technical Data Sheet

# Aqua-Seal 2K-PolyUrethane



### Product Description

**Aqua-Seal 2K-PolyUrethane** is a two-component waterborne finishing product based on polyurethane. The product has a very high chemical and abrasion resistance and is suitable for high-traffic hardwood floors. Due to its elastic properties, **Aqua-Seal 2K-PolyUrethane** is also suitable for untreated cork surfaces. The product is available in ultra-matt, matt, satin and glossy versions.

### Specifications

<b>Components:</b>	Water, polyurethane, glycols, additives	<b>Coverage:</b>	450-500 sf. /gal.
<b>Clarity:</b>	Translucent – dries clear	<b>Stability:</b>	DO NOT FREEZE
<b>Scent:</b>	Inoffensive – amine	<b>Leveling:</b>	Excellent
<b>Body:</b>	Full	<b>Defoaming:</b>	Excellent
<b>Texture:</b>	Richly smooth	<b>Pot Life:</b>	approx. 2 hrs. in mixture
<b>Density:</b>	8.68 lb/gal	<b>Dry Time:</b>	2 hrs.
<b>Packaging:</b>	3.44 gal lacquer + 0.344 gal hardener	<b>Cure Time:</b>	8-14 days*
<b>Sheen:</b>	ultra-matt, matt, semi-gloss, gloss	<b>Chemical Resist:</b>	Excellent
<b>Solid Content:</b>	---	<b>Shelf Life:</b>	1 year
		<b>Flash Point:</b>	> 212° F

For further details please refer to MSDS.

\*depending on climate conditions

### Application Instructions

**For professional use only.** **Aqua-Seal 2K-PolyUrethane** can be used as its own system or with a sealer. If a sealer is required in order to reduce the risk of side-bonding, **UniQuickPrimer** or **FlexSealer** may be used. After final sanding and screening to a 100/120 grit profile, the surface to be coated must be completely clean and dry. **Aqua-Seal 2K-PolyUrethane** can be applied with a T-bar applicator, roller or brush, coating in the direction of the wood grain. Use clean tools – clean up with water. **Shake well before use.** Prior to the application, **Aqua-Seal 2K-PolyUrethane Resin** is thoroughly mixed with **Aqua-Seal 2K-PolyUrethane Hardener** (mixing ratio: 10:1) in a bucket or container. The pot life (usability) of the mixture is approximately 2 hours. Only mix the quantity required for application. The finish mixture emits carbon dioxide, which must not be sealed in an airtight container to avoid bursting. For unusually absorptive substrates, we recommend thinning the first coat mixture with water (maximum: 10%). During the application, the temperature should not be below 55° F.

For difficult wood species, such as beech, maple and ash, consideration should be given to coating with a **Berger-Seidle Roller**.

Apply in 3 uniform coats allowing each previous coat to dry sufficiently. Apply at a maximum of 2 coats per day. Screening after each coat is not necessary but recommended for a smoother final coat. **Aqua-Seal 2K-PolyUrethane** can be applied in thick, rich coats while avoiding irregular application of the finish. A sufficient dry can be obtained in less than 2 hours at a constant temperature of 70° F and 50% relative air humidity. Do not re-coat before the previous coat is sufficiently dry. Insufficient ventilation, lower temperatures, increased coat thickness and erratic air humidity may prolong sufficient drying. Allow the finish to cure 8-14 days before exposing to traffic.

## **Maintenance and Care**

Regular cleaning and care with compatible care products is essential for extended floor life and beauty. For best results, use **L94 Cleaner** for basic cleaning and tough stain removal. Before allowing traffic, use **Everclear** for regular maintenance cleaning and a self-shining, non-slip floor. We recommend the installation of floor mats at each entry to keep out undue dirt, mud and grit.

## **System Recommendations**

For optimum results and a brilliant effect on the floor, we recommend the complete **AquaChoice** System: **AquaChoice TrowelFiller**, **AquaChoice Repa**, and a maintenance/care coat of **Everclear**. Do not use **Aqua-Seal 2K-PolyUrethane** in combination with other 'liquid/wet' sealers or finishes. If coating over stains, follow manufacturer's instructions for acceptable dry times before application of finish. Adhesion testing over stains is strongly recommended.

**Aqua-Seal 2K-PolyUrethane** is recommended as a coating over **Classic BaseOil**. In this system **Classic BaseOil** is to be seen as an oil based stain to influence grain enhancement or at least color.

## **Safety Precautions**

May cause skin and eye irritation. May be harmful if swallowed. Avoid skin or eye contact and inhalation of vapors. Use with adequate ventilation. Wash thoroughly after handling. Keep unmixed containers closed. Do not seal containers containing mixed product due to release of carbon dioxide. Keep out of reach of children. Residual quantities should not be poured into sewage water drains, but disposed of in compliance with local, state, and federal regulations.

## **Manufacturer's Recommendations**

This Technical Data Sheet is based on extensive research and wide-ranging experience and is meant to assist you. Restrictive information and precautions have not been avoided in order to reduce risk or fault. Technical Data Sheets do not contain all applications or events that could occur with different species of wood, installation, techniques and finishing. Therefore, you cannot be released from the obligation to contact the manufacturer in cases of doubt, to make your own tests on site and to be critically attentive during the job process. The contents of this data sheet are not legally binding and do not establish any contractual legal relationship. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. This information is subject to change without further notice.

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