

ZeraSeal™ W

Clear Waterborne Acrylic Polyurethane Concrete Sealer

DESCRIPTION

ZeraSeal™ W is a single component, low viscosity, clear, self-cross-linking, waterborne acrylic urethane sealer. ZeraSeal™ W has been developed to reduce dusting, facilitate cleaning, and to protect and enhance the appearance of concrete for interior and exterior applications. It may be used for application over decorative cementitious overlayers where minimum changes in colour or appearance of the substrate is required. ZeraSeal™ W is durable with outstanding UV resistance and colour stability.

WHERE TO USE

ZeraSeal™ W is designed primarily as a clear concrete sealer for application over properly prepared concrete floors for protection and dust proofing in areas such as light warehouse facilities, basement floors, and commercial storage facilities. It is also used over cementitious overlayers in applications such as restaurants and bars, studios and lofts, showrooms, retail stores and shopping malls, and residences.

BENEFITS

- Virtually odourless, safe, non-toxic
- Attractive high gloss sealer; semi-gloss is also available
- Low viscosity with excellent penetration
- Can be applied with spray, brush and roller
- Excellent colour stability and UV resistance
- Superior adhesion to concrete and cementitious overlayers compared with other waterborne sealers
- Tough, yet flexible with excellent impact resistance
- Excellent clarity
- Easy to clean and maintain

Handling Properties (Tested @ 23°C (74°F))

Application Temperature	12°C- 30°C (54°F-86°F)
Density Kg/litre (lb/US gal)	1.06 (8.8)
Solids	30 %
Viscosity, Zhan Cup #2, seconds	22
Re-coat time/ light foot traffic	2 hours

DATA - Cured Film (7 days cured @ 23 C/50 % RH)

Sward Hardness	34
Tensile Strength (ASTM D412)	9.7 MPa (1,400 psi)
Pull Out Tensile Adhesion (to unsanded cementitious overlayer substrate) (ASTM D4541)	Substrate failure

Impact Resistance (ASTM D2794)	pass 160 in/lb.
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SURFACE PREPARATION

Concrete floors must be treated using one or combination of any of the following depending on the roughness, age and concrete condition: Grinding, mechanically abrading, acid etching or power washing. This is needed to remove the weak concrete top layer known as “laitance”, dusting or “efflorescence” if present, which impairs the adhesion.

APPLICATION

Apply ZeraSeal™ W with a roller, spray or brush. A spray technique offers the best performance for film consistency, lack of roll marks and a smoother finish. For spray applications, ZeraSeal™ W is applied ready to use with conventional or airless spray without dilution.

For roller applications, use a lint free 9 mm nap roller and back roll the applied material to provide an even coat.

Apply the coating, with a minimum pressure, in a uniform consistent pattern in a one pass application to provide an even coat. **DO NOT ALLOW THE FRESH EDGE OF THE COATING TO DRY. If the coating begins to “clarify” (begins to change from milky white to clear), the coating is curing. Do not roll back into this coating at this stage, as this will create lap marks, hazing, and other differences in the cured coatings appearance. Also avoid heavy applications and puddling.** Ideally apply two coats at a coverage rate of 300-500 sq. ft/U.S. gallon depending on the porosity of the concrete surface being coated and the method of sealer application. Allow 4 hours of drying time between coats and 12-16 hours for traffic.

LIMITATIONS

- Minimum application and curing temperature is 12°C (54°F).
- Not recommended for areas subjected to heavy vehicular traffic.
- Must be applied to dry, properly prepared surfaces
- Efflorescence can develop as a result of migration of water and may lead to adhesion failure or discolouration of the surface.
- Avoid puddling or applying the coating in a thick film as it may cause shrinkage, cracking, and poor adhesion

- Not recommended for garage floors, driveways or areas exposed to vehicular traffic
- Poor water release may result in low gloss or haze film in some rare situations
- Applying **ZeraSeal™ W** over a highly damp surface or as a thick film may cause whitening that may not disappear over time and poor adhesion.

Curing:

The finished floor will take normal foot traffic after overnight drying but may remain susceptible to marking by furniture or heavy traffic until fully cured for 3 days after application.

COVERAGE

Roller: 7.4 m²/L (300 ft²/U.S. gallon per coat)

Spray: 12.3 m²/L (500 ft²/ U.S. gallon per coat)

Ideally two coats are recommended.

PACKAGING

18.9 litre (5 U.S. gal)

CLEAN UP

Clean all equipment with potable water prior to material set.

SAFETY PRECAUTION

Consult the Material Safety Data Sheet (MSDS) for specific instructions. Product is not regulated.

STORAGE

Protect from freezing. Store under normal heated warehouse conditions.

SHELF LIFE

One year from the date of manufacture if kept in the original unopened containers under normal heated warehouse conditions.

WARRANTY

“The recommendations made and the information herein is the result of accurate laboratory and field tests under controlled conditions. We guarantee that the quality and properties of the materials supplied conform to our standards. Zeraus Products Inc. makes no warranties, expressed or implied, as uses and applications are beyond our control. Zeraus Products Inc. shall not be liable for any injury, loss, or damage (direct or consequential) arising from use or inability to use the products. Before using, the user is urged to pre-test the products in his/her own environment to determine the suitability of the products for their intended use, and the user assumes all risk and liability whatsoever in connection therewith.

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