

ZeraPrime™ W-60

Waterborne Clear Acrylic Urethane Primer/Sealer

DESCRIPTION

ZeraPrime™ W-60 is a single component low viscosity clear nano-based 100% acrylic, self-cross-linking, waterborne concrete primer/sealer. It does not yellow and has outstanding UV resistance and is suitable for interior and exterior applications.

WHERE TO USE

ZeraPrime™ W-60 is designed primarily as a clear primer underneath decorative waterborne aliphatic polyurethane coatings. It is recommended for cementitious overlayments for such applications as restaurants and bars, driveways, sidewalks, patios, pavers, overlays, decorative concrete, studios and lofts, showrooms, retail stores and shopping malls, and urban art stones.

BENEFITS

- attractive high gloss primer and sealer
- virtually odourless; safe, non-toxic and contains
- excellent blush resistance
- excellent water resistance
- short dry time
- low viscosity with excellent penetration
- supplied as ready to use for spray application
- great exterior durability & UV resistance
- wet-on-wet application
- works well on acid stains
- superior adhesion to cementitious overlayments
- contain additional adhesion promoter additive
- chemical resistance
- alkaline & efflorescence resistance
- can be applied to damp surface or lightly wet concrete
- excellent clarity; provide color enhancement
- early block resistance

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

Application Temperature	12°C- 30°C (54°F-86°F)
Density Kg/litre (lb/US gal)	1.0 (8.33)
Solids	34%
Viscosity, Zhan Cup #2, seconds	25
VOC(g/l)	98
Re-coat time/ light foot traffic	2 hours

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

Tensile Strength	9.7 MPa (1400 psi)
(ASTM D412)	
Pull Out Tensile Adhesion (to unsanded cementitious overlayment substrate)	
(ASTM D4541)	substrate failure
Impact Resistance	pass 160 in/lb.
(ASTM D2794)	
Water immersion	excellent
	resistant to dirty motor oil, brake fluid, windshield fluid, blue, TSP, skydrol and ethylene glycol

APPLICATION

SURFACE PREPARATION

New concrete must be cured for a minimum of 28 days. The temperature must be above 12°C (54°F). The substrate must be free of all dirt, waxes, previously applied coatings, oil, grease, laitance and any foreign matter that may interfere with the bonding of the primer to the prepared substrate. Cracks and surface defects should be repaired prior to the application of the primer. All concrete should be **grinded or mechanically abraded** (25 grit sand paper) or **acid-etched** to provide a proper clean surface for adhesion. Heavy duty (high pressure) power washing is also an acceptable method for surface preparation. Some bad surfaces may require combinations of the above to ensure adequate adhesion to the concrete.

APPLICATION

Apply ZeraPrime™ W-60 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, ZeraPrime™ W-60 is applied ready to use with conventional or airless spray without dilution.

Air spray: suggested equipment , or equivalent:

Nozzle size 1.8- 2.0 mm and atomizing air 2.8-3.2 bar.

Airless spray:

Tip orifice is 0.011 to 0.015", atomizing pressure: 2700-3300 psi.

Roller Application:

It must be noted that every contractor has his/her own technique in applying a clear coating to obtain an attractive defects-free finish. The following are just guidelines:

Ideally a lint free 9 mm nap roller is used to apply ZeraPrime™ W-60 . On larger jobs, we recommend using a commercial 18" roller.

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.** Two to three coats at a coverage rate of 300-400 sq. ft/U.S. gallon is recommended depending on the porosity of the surface being coated. Allow 4 hours drying time between coats or 12-16 hours for traffic.

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

LIMITATIONS

- Minimum application and curing temperature is 12°C (54°F).
- Apply in a thin film (over 500ft²/U.S. gallon) by a roller may causes roller marks
- 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
- Applying ZeraPrime™ W-60 over a highly damp surface or as a thick film may cause whitening that may not disappear over time and poor adhesion.
- Poor water release may result in low gloss or hazy films.
- For very porous concrete surfaces, a two-coat application of the primer may be necessary to fully seal the concrete from outgassing.

COVERAGE

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

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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