



Aquacoat

Cementitious Water-Resistant Coating

DESCRIPTION

Aquacoat is a one-component, dry polymer-modified blend of portland cement, admixtures and proprietary aggregates. **Aquacoat** is designed to withstand hydrostatic pressure and waterproof concrete and masonry surfaces. **Aquacoat** is a vapor transmissive product that prevents vapor build-up that leads to blistering, flaking and peeling. **Aquacoat** can eliminate the need for tuckpointing old masonry structures. **Aquacoat** will fill small holes and voids as an ideal cosmetic treatment for interior and exterior surfaces.

USES

Aquacoat is ideal for:

- Protecting concrete, brick, block, stone and other masonry above or below grade
- Interior and exterior in applications such as tanks, tunnels, pools, manholes, reservoirs, pipes, troughs, walls, etc.

BENEFITS

- Breathable: Allows interior moisture to escape without damaging coating
- Dry Polymer-Modified: Just add water
- Resistant: Withstands the intrusion of corrosive deicing salts and freeze/thaw cycles
- Versatile: Accepts a wide range of architectural and textured coatings
- Performance: Protects building interiors from moisture damage
- Consistent: Strict Quality Control testing and standards

SURFACE PREPARATION

All surfaces in contact with **Aquacoat** shall be free of dirt, oil, grease, laitance and other contaminants that may act as bond-breakers. All unsound concrete should be removed to ensure a good bond. Smooth, dense surfaces may need to be mechanically abraded to provide necessary bonding requirements. Mechanically prepare the substrate to a minimum CSP 2 following ICRI Guideline 310.2R to allow proper bonding. Moisten area prior to application. Always apply a test patch. Maintain contact areas between 40°F (4°C) and 90°F (32°C) prior to repair and during initial curing period.

MIXING

For best results, use a mechanical mixer with rotating blades or use a heavy duty 1/2" (15 mm) (or larger) low-speed, corded drill and mixing paddle #6 per ICRI Technical Guideline 320.5R. Pre-wet mixer and empty excess water. Place 6.0 quarts of cool, clean potable water per 50 lb (22.7 kg) bag in mixer, then add dry material. Mix on low RPM for a total of 3 to 5 minutes until a homogeneous mixture is achieved. Mix only enough material that can be placed within working time. Do not blend excess water as this will cause bleeding and segregation. Do not use any other admixtures or additives.

COVERAGE

One 50 lb (22.7 kg) bag should cover approximately 300–400 ft² for dampproofing (1 coat). For waterproofing (2 coats), **Aquacoat** should be applied at 200–250 ft² on the first coat and 300–400 ft² on the second coat. Total minimum thickness for proper waterproofing is 1/16". Coverage may vary depending on the porosity of surface.

PLACING

Place material consistently, without multiple layers. Avoid any air entrapment. For areas greater than 1/16" in depth, apply **US SPEC Quickset 20** to within 1/16" of final repair. Install in one consistent application for best color match. Material performs best when applied at cool periods in the day.

FINISHING & CURING

Follow standard ACI curing practices. Exposed surfaces should be cured with a membrane forming curing compound such as **US SPEC Maxcure Resin Clear**, **US SPEC Hydrasheen** or **US SPEC Hydrasheen 30%**.

STORAGE

Normal cement storage and handling practices should be observed. Store material in an interior, cool, dry place. Shelf life is one year in original, unopened container.

LIMITATIONS

In addition to limitations already mentioned, please note the following. Do not apply when the surface or ambient temperature is below 40°F (4°C) or expected to fall below 40°F (4°C) within 48 hours. Do not apply over surfaces that are frozen or contain frost. Do not apply over any active faults or cracks in the substrate without addressing any movement that may occur. Allow concrete to fully cure for 28 days before the use of this product. This material is not intended for use as a horizontal wearing surface. Setting time will speed up in hot weather and slow in cold weather. For hot and cold weather applications, contact your US SPEC manufacturer's representative.



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PHYSICAL PROPERTIES

All Physical Property testing performed in laboratory conditions of $73.5 \pm 3.5^{\circ}\text{F}$ ($23 \pm 2^{\circ}\text{C}$) and a relative humidity no less than 50% unless otherwise determined by the test method or specification. All results represent **Aquacoat** with 6.0 quarts water unless listed otherwise. Tests are conducted under standardized conditions for comparative purposes, and results may not be representative of performance under field conditions.

Property and Test Method	Results			
	1 Day	3 Days	7 Days	28 Days
Compressive Strength ASTM C109	1,000 (6.89 MPa)	2,000 psi (13.98 MPa)	2,500 psi (17.23 MPa)	3,500 psi (24.13 MPa)
Rate of Set ASTM C266	Working Time 3:00	Initial 4:00	Final 5:00	

DANGER

This product contains Crystalline Silica (CAS# 14808-60-7) and Portland Cement (CAS# 65997-15-1). Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust.



WARNING: Cancer and Reproductive Harm -

www.P65Warnings.ca.gov

FIRST AID

If swallowed: Immediately call a poison center/doctor. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

MANUFACTURER/TECHNICAL SERVICE

Contact your US SPEC manufacturer's representative for the most current product information. Always read and follow the warnings and instructions on the most current technical data sheets, available online at www.usspec.com.

US MIX Co.
112 South Santa Fe Drive
Denver, CO 80223
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Web Site: www.usspec.com

NOTICE OF LIMITED WARRANTY US MIX Co. (manufacturer) warrants to buyer that this product at the time and place of shipment is of good quality and conforms to the manufacturer's specifications in force on the date of manufacture when used in accordance with the instructions hereon. Manufacturer cannot warrant or guarantee any particular method of use, application or performance of the product under any particular condition. This limited warranty cannot be extended or amended by manufacturer's sales people, distributors or representatives or by any sales information, specifications of anyone other than the manufacturer. Liability under this warranty is expressly limited to refund of the purchase price. See product packaging for complete limitation of warranties and liability.

Yield: 50 lb (22.7 kg) will fill approximately 0.43 ft³ when 6.0 quarts mixing water is used.