

ACRYMIX-IQ

BONDING AGENT & MORTAR ADMIXTURE

TECHNICAL DATA SHEET

1.0

PRODUCT DESCRIPTION

ACRYMIX-IQ is a high-performance acrylic emulsion admixture engineered with Adhesion Intelligence for use in cement and site-mixed mortars. Specifically designed for plaster, cement, mortar, stucco, overlays, and patching applications, it enhances adhesion along with tensile and flexural strength while improving overall durability. When incorporated into mixes, it increases resistance to abrasion, impact, and cracking, while also improving performance under freeze-thaw conditions. It further reduces permeability, helping limit water penetration and protecting against chloride intrusion and surface scaling. Suitable for both interior and exterior use, ACRYMIX-IQ is formulated to strengthen and extend the life of cement-based systems.

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USES

ACRYMIX-IQ is a non re-emulsifiable acrylic emulsion bonding agent and mortar admixture designed for durable performance in interior, exterior, and moisture-exposed applications. It enhances bond strength and long-term performance in a wide range of cementitious applications, including:

- Grouts and screeds
- Patch repair mortars
- Masonry mortars
- Renders
- Tile adhesives
- Stucco and terrazzo
- Concrete and toppings
- Vertical, horizontal, and overhead patching

CHARACTERISTICS / ADVANTAGES

- Improves adhesion and bond strength
- Enhances durability and flexural strength
- Reduces shrinkage and cracking
- Increases abrasion resistance
- Reduces permeability and chloride intrusion
- Non re-emulsifiable for wet environments
- Improves freeze-thaw and scaling resistance
- Improves workability and ease of use
- Suitable for most common substrates
- Produces stronger, longer-lasting repairs

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PRODUCT INFORMATION

PACKAGING

- 5 gal (19 L) pail
- 250 gal tote

APPEARANCE / COLOR

- Milky-white liquid

SHELF LIFE

- 24 months from date of production if stored properly in original, unopened and undamaged sealed packaging

STORAGE CONDITIONS

- Store dry at 40–95 °F (4–35 °C).
- Protect from moisture. If frozen, discard material
- Condition material to 65–75 °F (18–24 °C) before using

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APPLICATION INFORMATION**RECOMMENDED DOSAGE****Admixture**

- No dilution

Primer for acrylic coatings

- No dilution

Bonding Agent

- 1 part cement, 2 parts sand, undiluted ACRYMIX-IQ*

* Thick creamy paint consistency

COVERAGE

- Primer for acrylic coatings only
- Estimated coverage on a CSP-3 prepared surface is 300 ft²/gal
- Very porous concrete may require a second coat

AMBIENT AIR TEMPERATURE

- 40–86 °F (4–30 °C)

SUBSTRATE TEMPERATURE

- 40–86 °F (4–30 °C)

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APPLICATION INSTRUCTIONS**SURFACE PREPARATION**

- Mechanically roughen or water-jet the substrate to achieve a minimum CSP-3 profile or as required by substrate condition.
- Remove all unsound, weak, or deteriorated concrete and contaminants including dust, grease, oil, curing compounds, rust, scale, laitance, and any materials that may affect bond.
- The surface must be clean, sound, and porous. Bring substrate to a saturated surface dry (SSD) condition with no standing water prior to application.

MIXING

Mix ACRYMIX-IQ with water to create a gauging solution, adjusting the dilution based on the application. For standard use, follow the recommended dilution ratios; for more demanding applications, ACRYMIX-IQ can be used without dilution. Add a portion of the liquid (diluted or undiluted) to a mixing container, then gradually blend in the mortar mix until smooth and lump-free. Adjust consistency as needed with the remaining liquid. For specific dilution ratios and application guidance, refer to Section 5.

APPLICATION METHOD / TOOLS**For Primer for Acrylic Coatings Only:**

Apply un-diluted ACRYMIX-IQ to a prepared CSP-3 surface using brushes, rollers, brooms, or spray. If using AcryMix-IQ as a primer, apply it as a wet-on-wet bonding agent and cover it shortly after with your cementitious material. Do not allow the primer to dry.

For Bonding Agent:

Brush slurry evenly over the surface with a stiff broom or scrub brush, ensuring full coverage. Apply topping immediately while the slurry is still wet. Always mix with cement and sand; do not use neat or diluted as a bonding agent.

For Admixture:

Immediately trowel ACRYMIX-IQ mortar or concrete mixes applied in areas to be patched, avoiding over-finishing. Begin curing with damp burlap and/or white pigmented polyethylene film as soon as the surface resists damage, curing should continue for 24 hours. Pre-testing is recommended.

LIMITATIONS

- For professional use only
- Do not allow ACRYMIX-IQ to freeze; discard material if frozen
- Do not apply when temperatures are below 45°F (7°C) within 48 hours or if rain is expected within 24 hours
- Always mix with cement and sand; do not use neat or diluted as a bonding agent
- Apply toppings immediately over bonding slurry
- Do not use with solvent-based curing compounds
- Do not use with air-entraining cements
- Avoid overmixing and overworking
- May increase air content and alter mechanical properties
- Non re-emulsifiable and does not form a vapor barrier
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

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ACRYMIX-IQ

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OTHER RESTRICTIONS

See Legal Disclaimer.

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SAFETY AND TOXICITY

Avoid skin and eye contact with this product. It is recommended to wear safety glasses, gloves, and appropriate protective clothing during use. In case of contact, rinse the affected area thoroughly with soap and water. Keep out of reach of children. For full health and safety details, refer to the Safety Data Sheet.

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LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

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