



ULTRASEAL 427 is a state-of the art, asbestos free, cementitious, acrylic emulsion based, flexible protective coating and waterproof barrier. This product is two-component (powder and liquid) and resistant to water and abrasion.

USES

Above or below grade exterior applications.

- Concrete foundations ,retaining walls in aggressive media.
- Horizontal, vertical, or overhead applications to concrete, cementitious overlays, masonry, brick and parging (render).
- Exterior waterproofing of new or old below grade foundations.
- Terraces and balconies over unoccupied space (stand-alone or under tiles), parapets, planter boxes, plaza decks, stadiums.
- Mechanical & equipment rooms.
- Underneath flexible thin-set tile mortars (i.e. shower pans, sanitary rooms, kitchens, fountains, pools, balconies, etc.).
- Potable water, wastewater, sea water and marine aquarium tanks and other reinforced concrete structures.

ADVANTAGES

- Self curing, 2-component waterproofing membrane
- Various colors / color matching available
- Solvent Free - 0g/L VOC
- Potable water
- Does not support the growth of mold & mildew
- Breathable (not a vapor barrier)
- Applied to moist/damp substrates
- Resists strong positive side hydrostatic pressure
- Active barrier to carbon dioxide (CO²)
- Carbonation protection and carbon dioxide-screen: 40 mils (1 mm)

PHYSICAL & TECHNICAL DATA

Powder Component-A

Aggregate State	Grey, white & base white powder
Bulk Density	(~1.4 kg/dm ³)

Liquid Component-B

Appreance	White liquid
Density at 68°F (20°C)	~1.05 kg/L
pH-value	7.5
Shore 'A' Hardness	~85
Adhesion to concrete	1,5 MPA
Crack Bridging Capacity	1,6 mm
Elongation at rupture at 2 mm thickness	%160

SUBSTRATE PREPARATION

The substrate must be sound, clean, and free from voids, bug holes, gaping cracks, honey combs, or ridges and open pored (like medium grit sand paper).





- Remove bond breakers, such as oil, grease, dirt, loose particles, remains of form oils, water repellents, rust or other coatings by high pressure waterblasting or wet or dry sandblasting.
- Prepare surfaces by mechanical tools.
- Repair holes, defects, irregular surfaces, weak mortar joints, etc. with RPM 601.
- Round edges at vertical external joints.
- Close large open pores and joint recesses of blocks and joint unevenness in brick walls with RPM 601.
- Dampen substrate (excluding drywall or similar) with clean water to saturated surface dry (SSD) condition, with no standing surface water.
- Roughen fiberglass substrates using diamond grinding, wire wheel, etc. and clean with acetone prior to applying ULTRASEAL 427

MIXING

- Add powder part (Component A) to liquid part (Component B) prior to mixing Component-A with Component-B.

Application

- Application tools: ULTRASEAL 427® may be applied by brush, roller, trowel or appropriate compressed-air spray equipment. Do not pre-dampen brush or roller with water.
- Static cracks: Repair static for horizontal (non-moving) cracks with DURAPUR REPAIR and for vertical cracks use with RPM 601 or DURAEF.
- Dynamic cracks: Seal dynamic (moving) cracks with DURAFLEX (500% elongation)
- Horizontal and vertical control joints: Seal horizontal wall-floor joints and internal vertical corners with RPM 601 and embed 4x4- MESH in ULTRASEAL 427 coating.
- Expansion joints: Seal non-traffic bearing expansion joints with DURABAND HE.

Note: ULTRASEAL 427® applied over all tapes in visible areas will crack over the tape due to substrate movement.

However, the tape and the structure will still be waterproof. Therefore, wherever aesthetics are important (i.e. walkways, decks, patios, etc.) honor all joints & cracks with an appropriate elastomeric joint sealant or pre-manufactured joint profile.



CURING & PROTECTION

- Self curing, do NOT use water. It may discolor pigmented applications during the fresh stage. Provide suitable protection against extreme weather conditions while curing.
- Expect prolonged setting and hardening time in rooms with high humidity, poorly ventilated areas and corners (i.e. water tanks, etc.). The use of fans will accelerate the setting and curing time.
- Attach drainage and protection boards after full curing (3 days). DO NOT mechanically attach.

PACKAGING

- 20 Kg Kraft Bag
- 10 Kg Pail

SHELF LIFE

Approx. 24 months for powder Component-A and up to 24 months for liquid Component-B in unopened packaging, stored dry, cool and frost-free.