



# UNDERLAY

## MANUFACTURER

A.W. Cook Cement Products  
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## GENERAL USES

For leveling and repairing deteriorated concrete. Underlay may be used above or below grade and on horizontal surfaces. From featheredge to ½”.

## FEATURES

- One component.
- Superior adhesion.
- Similar modulus of elasticity to concrete.
- Extremely low shrinkage.
- Vapor permeable.
- Resistant to freeze/thaw cycling.
- Easy to apply and finish.
- May be feather edged.

## INSTRUCTIONS FOR USE

**A. Surface Preparation:** All surfaces must be clean and free of dirt, dust, paint, sealers, coatings, loose material, adhesives, curing compounds or any material that will inhibit patching material from coming in contact with the concrete pores. Tight, steel troweled concrete should be abraded or etched with sulfamic or muriatic acid solution, then neutralized to open up the concrete pores. Removal of any anti adherents or loose materials must be accomplished mechanically with a wire brush, chipping hammer, or by sand or water blasting. Solvents or strippers are not acceptable.

**B. Mixing:** For normal applications, add 7-1/2 to 8-1/2 pints of water per 50 pound bag of Underlay, depending upon the desired consistency. Mixing can be achieved either manually or mechanically. Mechanical mixing is preferred for quantities greater than 1 bag. Mixing should continue until a uniform, lump-free consistency is obtained. Avoid over mixing which could lead to over aeration of the mix.

**C. Application:** Dampen the surface thoroughly with clean water. Avoid standing water.

**D. Curing:** The formulation of Underlay minimizes the need for curing. However, application in direct sunlight or windy conditions may lead to rapid surface drying.

**E. Limitations:** Ambient and surface temperatures must be 38°F or above during application

**F. Clean Up:** Remove uncured Underlay from tools and equipment with water. Cured material may only be removed mechanically.

## PACKAGING

50 pound bag.

## COVERAGE

Volume yield 0.45 cubic feet per unit.

50 square feet per unit @ 1/8” thick.

## STORAGE AND HANDLING

**A. Shell Life:** 12 months in the original unopened container.

**B. Storage:** Store in a dry area away from direct sunlight.

## HEALTH AND SAFETY

**A. Health Precautions:** This product contains Portland cement and crystalline free silica. Avoid breathing the dust. Exercise care; as with handling any chemical construction product.

**B. Safely Precautions:** Use adequate ventilation. Use of a NIOSH/ MSA approved dust respirator, safety goggles and chemical resistant gloves are strongly recommended. Remove contaminated clothing immediately.

**C. First Aid:** Skin Contact: wash thoroughly with soap and water. Eye Contact: flush immediately with water and contact a physician. Respiratory Problems: remove affected person to fresh air immediately and contact a physician. Hygiene: wash hands immediately after use. Wash clothing before reuse.

**D. Spills:** Collect in appropriate container. Uncured material may be removed with water.

**E. Disposal:** Dispose of in accordance with local, state or federal regulations.

**F. Warning:** KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY BY A QUALIFIED TECHNICIAN. Consult the Material Safety Data Sheet for further health and safety information.



# UNDERLAY

## TECHNICAL DATA

### Compressive Strength

ASTM C-109 Mortar (mod.)

1 day	2870 psi
7 day	4250 psi
28 day	5500 psi

### Flexural Strength

ASTM C-78

1 day	450 psi
7 days	1200 psi
28 days	1440 psi

### Split Tensile Strength

ASTM C-496

1 day	200 psi
7 days	510 psi
28 days	725 psi

### Bond Strength

ASTM C-882

Modified

1 day	300 psi
7 days	1100 psi
28 days	1650 psi