

PHYSICAL PROPERTIES

SOLIDS CONTENT	.....	100%
VOLUMETRIC MIX RATIO	.....	2A:1B
COVERAGE RATE	.....	4" Height: 27 lf/kit 6" Height: 24 lf/kit
APPLICATION TEMP	.....	50°- 90°F
POTLIFE 1 Gal mass @ 75°F	.....	15-20 Min
DRY TIME @ 75°F	.....	5-12 Hours
PACKAGING	.....	1/2 Gal Kit w/ 1 Bag CS-32 Trowel Sand

MECHANICAL PROPERTIES

COMPRESSIVE STRENGTH ASTM C579	.....	11,500 p.s.i
FLEXURAL STRENGTH ASTM C580	.....	9,200 p.s.i
TENSILE STRENGTH ASTM C307	.....	8,800 p.s.i
ELONGATION ASTM D2370	.....	5%
ADHESION TO CONCRETE ASTM D7234	.....	>400 p.s.i
SHORE D HARDNESS ASTM D2240	.....	80
IMPACT RESISTANCE ASTM D2794	.....	>160 in/Lbs
ABRASION RESISTANCE ASTM D4060	.....	51 mg Loss

CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

PRODUCT DESCRIPTION

312 CrownStone Cove is an epoxy system designed as an integral part of the flooring system. 100% solid, non shrink, 3 component polymer mortar. Formulated to be hand-trowel applied at 4" or 6". CrownStone offers a decorative or industrial cove demanding a seamless floor to wall built system.

TYPICAL USES

- Chemical Containment
- Food and Beverage Facilities
- Commercial kitchen coolers and walk-in boxes
- Manufacturing and Warehouse Floors
- Pharmaceutical Floors
- Showers and Restrooms
- Laboratories and Research Floors
- Mechanical Equipment Room Floors

BENEFITS

- Complies with USDA, FDA, FSMA. See Crown Polymers Technical Bulletin: 3 Food and Beverage Compliance.
- LEED requirements. See Crown Polymers Technical Bulletin: 5 LEED information
- Cures to an inert finish. See Crown Polymers Technical Bulletin: 2 VOC Compliance

COLORS



Clear

LIMITATIONS

- Do not split kit
- Do not thin
- May amber with UV Exposure
- Don't use wet aggregate
- Do not apply over loose or unsound concrete, asphalt, nonporous brick and tile, metal, polyesters, elastomeric membranes, drywall or FRP.

SHELF LIFE

1 Year on Liquids and 6 Months on Aggregate from Date of Manufacture provided unopened

STORAGE

Store in a dry environment at room temperature and out of direct sunlight.

APPLICATION EQUIPMENT

Personal Protective Equipment
Tape Measure & Chalk Line
Duct Tape
Mortar Mixing Paddle
Drill
Margin Trowel
Stainless Steel Trowel
Cove Trowel

SURFACE DIAGNOSTICS

Concrete, block, or cement board walls must be in a sound condition, thoroughly clean, dry, and free of any contaminants, including dirt, dust, grease, oil, silicones, and other substances that could adversely impact adhesion.

If contaminants are present, scrub the surface with a pH neutral cleaner/degreaser, rinse it thoroughly and allow to dry 24 hours prior to application.

Additionally, any paint or coatings must be removed from the area designated for the cove application. Cove should not be applied to other types of walls.

SURFACE PREPARATION

Concrete/Block wall shall be profiled to a CSP level of 2-3 using a hand grinder with diamond cupwheel per ICRI technical guideline 310.2
Cement Board should be profiled using 30-60 grit sandpaper.

Vacuum all dust and debris from wall and floor junction. Apply duct tape to top of cove strip or wall termination to protect cove strip and wall. Apply duct tape on floor approximately 1.5 – 2" from wall to identify area to receive primer and cove base.

SURFACE REPAIR

All depressions, divots and cracks should be profiled and free of dust and contaminants. Repair surface imperfections to reduce the ability to see the defect through the coating.

TEMPERATURE EVALUATION

Ambient and substrate temps should be above 50°F and a minimum of 5°F above Dew Point.
Product temps should be between 70-80°F.
Relative Humidity should not exceed 80%. See CrownTech Bulletin 7: Temperature & Relative Humidity

ALL SOURCES OF IGNITION SHOULD BE TURNED OFF AND ENVIRONMENT SHOULD HAVE PROPER AND ADEQUATE VENTILATION DURING APPLICATION AND CURING PROCESS

MIXING AREA SHOULD BE PLACED ON OR IN CLOSE PROXIMITY TO PROJECT. AREA SHOULD BE SECURELY COVERED WITH PLASTIC, CARDBOARD OR TARP. STAGE MATERIALS, TOOLS AND CLEANING SUPPLIES IN MIXING AREA PRIOR TO APPLICATION PROCESS.

DO NOT MIX MORE MATERIAL THAN CAN BE APPLIED IN 10 MINUTES

MIXING

- 1 Pre-Mix A-Component in its respective container using Jiffy mixer and drill at slow speeds for 30 seconds.
- 2 Pre-Mix B-Component in its respective container using clean Jiffy mixer and drill at slow speeds for 30 seconds or until thoroughly homogeneous.
- 3 Transfer A-component and B-component into a clean metal 5-gal bucket and mix for 1 minute then slowly add trowel sand gradually while continuously mixing for 2-3 minutes with mortar mixing paddle being sure to scrape sides of the bucket with a stir stick ensuring both components are thoroughly blended

COVERAGE RATE

27 Lf / kit @ 4"
24 Lf / kit @ 6"

COVERAGE RATE MAY VARY DUE TO SUBSTRATE CONDITION

WORKING TIME

15 Minutes @ 75°F

WARMER AMBIENT, PRODUCT AND SURFACE TEMPERATURES WILL SHORTEN POTLIFE AND WORKING TIME.

APPLICATION PROCESS

- 1 Apply Cove strip at desired height, wet prime surface with mixed 310 resin and use margin trowel to load material at floor/wall junction
 - Do not apply to dry wall or where primer has been allowed to dry

EPOXY SETS FASTER IN MASS, MIXED MATERIAL SHOULD NOT REMAIN IN BUCKET

- 2 Use Flat Trowel to pull material up wall and use cove trowel to form cove. Clean and lubricate cove trowel with mineral spirits to smooth cove finish

- ✓ Remove tape and clean cove strip as well as floor junction.
Allow coating to dry 5-12 hours

CLEAN-UP

Clean-up mixing station, tools, and equipment as required. Use acetone, a VOC exempt solvent, for cleaning up. Observe all legal, and health, and safety precautions when handling or storing solvents and materials, particularly in confined spaces. Make sure the working areas are well ventilated at all times during placement and curing time.

DISPOSAL

Dispose of empty packaging and other waste in accordance with federal, state, provinces and local regulations.

MAINTENANCE

Inspect the installed floor by spot cleaning and spot repairing the damaged or cracked areas. To prolong life of the flooring system, a daily maintenance program is highly recommended to ensure the floor is safe for its intended purposes. See Crown Polymers Technical Bulletin: 8 Care and Maintenance.

TECHNICAL SUPPORT

For questions, contact a Crown Polymers Representative. Additional Support Documents are available from Crown Polymers, including brochures, application guidelines, videos and more. Visit Crownpolymers.com or contact Crown for additional resources

DISCLAIMER

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REFER TO SAFETY DATA SHEETS (SDS) FOR SAFETY PRECAUTIONS.

SAFETY PRECAUTIONS MUST BE FOLLOWED DURING STORAGE, HANDLING AND USE.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

SHALL BE WORN AT ALL TIMES INCLUDING BUT NOT LIMITED TO LONG SLEEVE SHIRTS OR DISPOSABLE ARM SLEEVES, SAFETY GLASSES, DISPOSABLE NITRILE GLOVES, AND PROPERLY FITTED NIOSH RESPIRATORS