

PHYSICAL PROPERTIES

SOLIDS CONTENT	.....	100%
VOLUMETRIC MIX RATIO	.....	2A:1B
COVERAGE RATE	.....	4" Height: 50 lf/gal 6" Height: 36 lf/gal
APPLICATION TEMP	.....	50°- 90°F
POTLIFE 1 Gal mass @ 75°F	.....	15-20 Min
DRY TIME @ 75°F	.....	5-7 Hours
PACKAGING	.....	1.5 Gal Kit 3 Gal Kit

MECHANICAL PROPERTIES

COMPRESSIVE STRENGTH ASTM C579	.....	7,300 p.s.i
FLEXURAL STRENGTH ASTM C580	.....	2,500 p.s.i
TENSILE STRENGTH ASTM C307	.....	5,300 p.s.i
ELONGATION ASTM D2370	.....	1.5%
ADHESION TO CONCRETE ASTM D7234	.....	>400 p.s.i
SHORE D HARDNESS ASTM D2240	.....	85-90
IMPACT RESISTANCE ASTM D2794	.....	>160 in/Lbs
ABRASION RESISTANCE ASTM D4060	.....	30 mg Loss

CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

PRODUCT DESCRIPTION

8312 CrownCove is a 2-component, 100% solids, and thermosetting thixotropic epoxy designed for grouting epoxy mortar and vertical applications where sag resistance is desired. Formulated to be hand-trowel applied at 4" or 6" or more, such as 6" height with 1" radius cove. CrownCove offers a decorative or industrial cove demanding a seamless floor to wall built system. CrownCove can also be used with aggregate to be used as a patching system for concrete floors.

TYPICAL USES

• Animal Care and Housing	• Commercial Bakeries and Kitchens	• Hospital and Health Care Facility Floors	• Manufacturing and Warehouse Floors	• Pharmaceutical Floors
• Automotive Show Room and Repair Areas	• Food, Beverage and Spirits Processing	• 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
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COLORS



Clear

LIMITATIONS

- Higher temperatures will result in shortened working times and faster drying time.
- Do not thin
- May amber with UV Exposure
- Don't use wet aggregate

SHELF LIFE

1 Year 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
Mortar Mixing Paddle
Drill
Margin Trowel
Stainless Steel Trowel
Cove Trowel
Cove Strip

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

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

**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 50 lbs of natural or colored quartz 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

50 Lf / Gal @ 4"

36 Lf / Gal @ 6"

**COVERAGE RATE MAY VARY DEPENDING ON
SUBSTRATE CONDITION**

WORKING TIME

15 Minutes @ 75°F

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

APPLICATION STEPS

1

Apply Cove strip at desired height, wet prime surface with mixed 8312 liquids 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

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Remove tape and clean cove strip as well as floor junction.
Allow coating to dry 12-24 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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