8312 CrownCove

Technical Data Sheet (TDS)

PHYSICAL PROPERTIES

VOC	.....	<5 g/L
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 specifically for 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
- Automotive Show Room and Repair Areas
- Commercial Bakeries and Kitchens
- Food, Beverage and Spirits Processing
- Hospital and Health Care Facility Floors
- Laboratories and Research Floors
- Manufacturing and Warehouse Floors
- Mechanical Equipment Room Floors
- Pharmaceutical Floors

BENEFITS

- Complies with USDA, FDA, Food Safety Modernization Act.
- Slip Resistance (ADA)
- LEED® requirements.
- VOC and EPA Compliant, and low odor during installation. Cures to an inert finish.
- Strong and Tough Floor
- Strong Chemical and Abrasion Resistance
- Designed for new floors and for resurfacing old floors

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 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.

DISCLAIMER

All technical bulletins, installation guidelines, guidelines, recommendations, statements, specifications, and technical data contained herein are based on information and tests. The accuracy and completeness of such tests are not guaranteed and are not to be construed as a warranty, expressed or implied. It is the responsibility of the user to document information and tests to determine the intent of the product for ones’ own use. The application, job conditions and user assume all risks and liability resulting from use of the product, We do not suggest or guarantee any hazards listed herein are the only ones, which may exist, Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use the product. Recommendations or statements, whether in written or verbal, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Crown Polymers makes no claim that these tests or any other tests accurately represnt all environments. Not responsible for typograhical errors.

LIMITED WARRANTY

Crown Polymers warrants its products to be free of manufacturing defects and meets all Crown Polymers current published physical properties. Crown Polymers’ sole responsibility shall be to replace the protion of any product proved to be defective. There are no other warranties by Crown Polymers of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Crown Polymers shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty expressed or implied. In addition, no warranty or guarantee pertaining to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by applicator will be issued. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of substrate or structural defects are also excluded from limited warranty.

8312 CrownCove

Application Guide

APPLICATION EQUIPMENT

Protective Clothing
Mortar Mixing Paddle
Paddle Drill
Margin Trowel
Flat Trowel
Cove Trowel
Cove Strip

SURFACE DIAGNOSTICS

Concrete must be structurally sound and free of all contaminants and bond breakers. Test concrete compressive strength using a Schmidt or Rebound Hammer to ensure substrate has compressive strength of 3500 psi or higher.
Perform a PH test using concrete PH test strips or meter to ensure substrate PH is between 9-12.
Perform Moisture Test using either Calcium Chloride per ASTM F1869 or In-Situ Relative Humidity Probe per ASTM F2170 to ensure substrate has Moisture Vapor Emission Rate of 25 lbs or less and Relative Humidity of 99% or less. See Crown Polymers Technical Bulletin 6: Moisture Mitigation Negative Side Moisture Barrier

SURFACE PREPARATION

Use Mohs scratch test to determine concrete hardness for proper diamond bond selection. Concrete should be mechanically profiled and prepared to produce a Concrete Surface Profile (CSP) level between #2 & #4 per ICRI Guideline no. 310.2R. See Crown Polymers Technical Bulletin 1: Concrete Surface Perparation

SURFACE REPAIR

All depressions, divots and cracks should be profiled and free of dust and contaminants. Repair cracks 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 85%. See Crown Polymers Technical Bulletin 7: Temperature & Relative Humidity

REVIEW SAFETY DATA SHEETS FOR PRECAUTIONS

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 continously 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

COVERAGE RATE

50 Lf / Gal @ 4”
36 Lf / Gal @ 6”

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

Sets up quicker in mass, mixed material should not be left sitting in bucket for periods of time

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

✓ Allow coating to dry 12-24 hours

SLIP RESISTANCE

Skid-Resistance – Field (in situ) Wet Dynamic Coefficient of Friction (DCOF), ANSI A326.3. See Crown Polymers Technical Bulletin: 4 Coefficient of Friction.

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