7145 CrownCaulk

Technical Data Sheet (TDS)

PHYSICAL PROPERTIES

SOLIDS CONTENT 100%

VOLUMETRIC MIX RATIO 1A:1B

COVERAGE RATE .....

	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
1/4"	308	205	154	123	102	88	77
3/8"	205	136	102	82	68	58	51
1/2"	154	102	77	61	51	44	38
5/8"	123	82	61	49	41	35	30
3/4"	102	68	51	41	34	29	25
7/8"	88	58	44	36	29	25	22
1"	77	51	38	30	25	22	19

Coverage Rate: Linear Feet per Gallon

APPLICATION TEMP ..... -40°- 200°F

POTLIFE
600 ml @ 77°F ..... 3-4 Minutes

WORKING TIME
@ 77°F ..... 2-3 Minutes

DRY TIME
@ 77°F / 50% RH ..... 5 Minutes

PACKAGING ..... 600 ml Cartridge
10 Gal Kit

MECHANICAL PROPERTIES

SHORE A HARDNESS .....
ASTM D2240 45 ± 3

TENSILE STRENGTH .....
ASTM D638 425 ± 50%

TEAR STRENGTH .....
ASTM D624 80 ± 10 pli

TABER ABRASION .....
ASTM D4060 20-75 mg loss

CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

PRODUCT DESCRIPTION

7145 CrownCaulk is a two-component, 100% solids, self-leveling, modified polyurea elastomeric joint sealant engineered to provide durable, flexible sealing of concrete joints subject to movement. Its elastomeric formulation accommodates joint movement of up to ±25% of the installed joint width while maintaining a resilient, continuous seal. Designed for effective joint protection, 7145 CrownCaulk helps prevent the intrusion of moisture, debris, and contaminants while accommodating normal substrate expansion and contraction. For optimal installation performance, concrete should be allowed to cure for a minimum of 28 days before sealant application.

TYPICAL USES

- Balcony Decks
- Bridge Decks
- Industrial Facilities
- Parking Decks
- Roofing
- Sidewalks
- Water and Waste Water Treatment

BENEFITS

- 100% Solids
- Cures from -20°F to 130°F
- Exceptional Elongation
- No Toxic Vapor, Odorless
- Remains Flexible in Cold Temperatures
- Resists Jet Fuel
- USDA/FSIS approved

COLORS



Concrete Grey

LIMITATIONS

- Not recommended for use beneath non-resilient or polymeric flooring systems.
- Do not apply on surfaces with slopes exceeding 15% due to the self-leveling characteristics of the material.
- Open-cell backer rod is required in all joints except small, random cracks to control sealant depth and prevent three-sided adhesion.
- Prolonged ultraviolet (UV) exposure may cause discoloration without adversely affecting the sealant's physical properties.
- Joints must be properly designed and prepared in accordance with industry standards. Sealant depth should equal 50% of joint width for optimal movement capability and must never exceed 1 inch.

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
600 ml Cartridge Gun
1:1 ratio pump. no heater is required.
Disposable static mixing

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 3 psi or less and Relative Humidity of 80% or less. See CrownTech Bulletin 6: Moisture Mitigation Negative Side Moisture Barrier

SURFACE PREPARATION

Allow concrete to cure 28 days before installation. Saw cut the joint to ACI Recommendations. All joints must be clean and dry prior to installing 7136. If joint is damp, dry with heat torch. If primer is required, use CrownShield™ 8303. Remove all dust from the concrete pores prior to installing 7136 If backer rod is used in control joints, the recommended depth is not greater than 25% of the total depth of the slab. Construction joints are to be filled to full depth using no backer rod or silica sand. To repair T-joints, the joint should be cut a minimum of 25% of the total depth of the slab. The side of the T-joint must be cut 12" (20.4cm) from the joint and a minimum of 2" (5.08 cm) deep. For random crack and spall repairs, each side of the crack should be cut to create a minimum 2" (5.08 cm) deep vertical edge. Ensure that all joint edges are at 90° angles to grade with no V-grooving or feather edges.

TEMPERATURE EVALUATION

Ambient and substrate temps should be above -40°F and below 200°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 DISPOSIBLE ARM SLEEVES, SAFETY GLASSES, DISPOSIBLE NITRILE GLOVES, AND PROPERLY FITTED NIOSH RESPIRATORS

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 3-4 MINUTES

MIXING

1. Pre-Mix A-Component in its respective container using Jiffy mixer and drill at slow speeds for 1 minute until pigment is uniform.

IF USING MULTIPLE BATCHES, IT IS BEST TO BOX ALL A-COMPONENTS TOGETHER THEN SEPARATE BACK INTO INDIVIDUAL CONTAINERS TO ENSURE EVEN PIGMENTATION.

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 at a mix ratio of 1A:1B into a clean 5-gal bucket and mix for 2-3 minutes being sure to scrape sides of the bucket with a stir stick ensuring both components are thoroughly blended.

COVERAGE RATE

See coverage rate chart listed on Page 1. The figures are estimated coverage rates and can vary on the joint conditions.

WORKING TIME

2-3 Minutes @ 77°F

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

APPLICATION PROCEDURE

1. Shake cartridge vigorously for 1 minute and bleed material into disposable cup until even mixture is achieved through static mixing tube and slightly overfill joint For best results, machine dispense using a 1:1 ratio pump, with or without heater as required. Use a disposable static mixing tube with restrictor before dispensing. Material left in static mixing tube will thicken in approximately 30-60 seconds and mixing tube needs to be discarded at that point.

✓ Allow coating to dry roughly 5 mins before shaving with razor floor scraper.
Foot traffic permitted after 2 hours @ 77°F / 50% RH

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

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