7400 CrownCrack Polyurethane Alloy Repair

Technical Data Sheet (TDS)

PRODUCT DESCRIPTION

CrownCrack 7400 is a two component, low odor, liquid applied, polyurethane-alloy concrete repair system designed to repair concrete and masonry substrates. The new surface will protect concrete from weather, corrosion, erosion, freeze/ thaw spalling and chemical attack.

PHYSICAL PROPERTIES

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 ..... 50°- 90°F

POTLIFE
1 Gal mass @ 75°F ..... 3-4 Minutes

DRY TIME
@ 75°F ..... 8-14 Mins

FULL CURE ..... 24 Hours

PACKAGING ..... 2 Gal Kit
10 Gal Kit

MECHANICAL PROPERTIES

TENSILE STRENGTH
ASTM D412 ..... 2,000 p.s.i

ELONGATION
ASTM D412 ..... 4%

SHORE D HARDNESS
ASTM D2240 70-75

CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

TYPICAL USES

- Concrete Repair

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

Opaque

LIMITATIONS

- Higher temperatures will result in shortened working times and faster drying time.
- Do not mix more than 8 ounces at a time
- May amber with UV Exposure
- Do not thin
- Surface must be dry

SHELF LIFE

6 Months 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
V-Blade
Putty Knife
Stainless Steel Trowel

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. All cracks and divots must be clean and dry prior to installing 7300. If crack is damp, dry with heat torch. If primer is required, use CrownShield™ 8303. Remove all dust from the concrete pores prior to installing 7300. For random crack and spall repairs, each side of the crack should be cut to create a minimum 1/4" deep vertical edge.

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.
Honor all dynamic (moving) joints, static joints may be filled, use dynamic joints as initiation and termination points during application process where needed.

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 DISPOSIBLE ARM SLEEVES, SAFETY GLASSES, DISPOSIBLE 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 2 MINUTES

MIXING

1. Add A&B components at a mix ratio of 1A:1B by volume
2. Mix components for 30-45 seconds ensuring mixture is homogeneous

COVERAGE RATE

300 Lf / Gal @ 1/4" x 1/4"

COVERAGE RATE WILL VARY DEPENDING ON DEPTH AND WIDTH OF THE CRACK, REFER TO COVERAGE RATE CHART

WORKING TIME

3-5 Minutes @ 75°F

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

APPLICATION STEPS

1. Pour mixed material into prepared joint or crack slightly overfilling
2. Allow coating to dry:
8-14 Mins depending on temperatures
Grindable in 30 minutes to 1 hour depending on temperatures

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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