Advanced Polymer Concrete Crack Sealant

1. PRODUCT DESCRIPTION

1.1. BOMIX® Advanced Polymer Concrete Crack Sealant is a superior, textured, one-component, permanently flexible, multipurpose sealant.

2. PRODUCT USE

2.1. BOMIX® Advanced Polymer Concrete Crack Sealant is a non- shrink weather-resistant, high performance advanced polymer sealant formulated to fill cracks and joints in concrete, in interior or exterior areas from 6,35 mm (1/4 inch) up to 25,4 mm (1 inch) in width. BOMIX® Advanced Polymer Concrete Crack Sealant is UV resistant and adheres to concrete, brick, masonry, wood, glass, vinyl, and most plastics. BOMIX® Advanced Polymer Concrete Crack Sealant is ready-to- use and cures upon contact with the moisture in the air to form a durable flexible seal.

2.2. BOMIX® Advanced Polymer Concrete Crack Sealant may be used for: Sealing & Waterproofing horizontal or vertical control joints or expansion joints in sidewalks, driveways, industrial floors, parking decks, etc.

3. SIZES

3.1. BOMIX® Advanced Polymer Concrete Crack Sealant is available in gray 295 ml (10 oz) tubes.

4. YIELD

4.1. 295 ml (10 oz) tube will fill approximately 3,6 m (12 linear feet) in 13 mm (1/2 in) wide by 6,3 mm (1/4 in).

5. TECHNICAL DATA

5.1. BOMIX® Advanced Polymer Concrete Crack Sealant meets performance requirements of ASTM C 920, Type S, Grade NS, Class 25, Use T, NT, A, G, and M; Federal Specification TT-S-0230C, Type II, Class A; CSA CAN/CGSB 19.13-M87. Meets VOC requirements in all regions.

5.2. BOMIX® Advanced Polymer Concrete Crack Sealant, when tested in accordance with standard procedures, provides typical results as listed in Table 1.

TABLE 1
TYPICAL PHYSICAL PROPERTIES

Tack-Free Time at 25°C (77°F), 50% RH	60 minutes
Cure Rate at 25°C (77°F), 50% RH	6,3 mm (¼ in) at 24 hours
Dynamic Joint Movement	+/- 25%
Durometer Hardness, Shore A	35 to 45
Ultimate Tensile Strength	1,5 MPa (225 psi)
Elongation	250 to 350%

6. INSTALLATION

6.1. **NOTE:** It is recommended that impervious gloves – such as nitrile be worn during application. BOMIX® Advanced Polymer Concrete Crack Sealant is difficult to remove from skin and clothing. If sealant gets on skin, immediately wipe off with a dry cloth. Use only in well- ventilated, exterior areas. Before handling read Safety Data Sheet at www.bomix.ca.

7. APPLICATION

7.1. SURFACE PREPARATION

7.1.1. The key to long-term sealant performance is proper substrate preparation. The substrate must be clean, frost free, sound and free of any oils, greases, or incompatible sealers, paints or coatings that may interfere with adhesion and good joint performance. Porous surfaces should be cleaned of dirt, dust, loose debris and other potential bond breakers. Mechanical methods, such as wire brushes, grinders, etc. may be required to remove surface contamination, debris and failed sealants such as in re-caulking applications. Make sure to wear proper personal protection equipment when sanding or grinding.

7.2. JOINT DESIGN

7.2.1. A thin bead of sealant will accommodate more movement than a thick bead. Working joint depths should never exceed ½ in (13 mm) or be thinner than 6,3 mm (1/4 in) For best results, the ratio of joint width to depth should be 2 to 1. Joints should be designed or cut to work well within the movement capability of the sealant allowing for erection and installation tolerances, time of year of installation and sealant movement capability. Backer Rod should be used depending on application, to prevent three sided adhesion and to prevent joint depths from exceeding 13 mm (½ in). If joint depth does not allow for backer rod installation, use polyethylene bond breaker tape.

8. METHOD OF APPLICATION

8.1. Avoid applying sealants below 4 °C (40 °F) unless following specific instructions for cold weather caulking. Also avoid applying sealants in ambient conditions where threat of rain is imminent. If ambient temperatures exceed 29 °C (85 °F) and particularly when substrates will be exposed to direct sunlight, check surface temperatures to be sure they don't exceed the maximum application temperature of 35 ºC (95 ºF). Mask adjacent surfaces to be sealed if necessary to ensure neat sealant lines and minimize clean up. Avoid placing masking in areas to be sealed. Remove masking immediately after placing sealant. Remove nozzle by twisting counterclockwise. Cut the tip of the tube without removing any of the threads for the nozzle. Reattach the nozzle and cut the tip of the nozzle to the desired size. Using a caulk gun, dispense sealant with the nozzle near the bottom of the joint to avoid trapping air during placement.

9. VOC CONTENT

9.1. 14 g/L

10. CLEAN UP

10.1. **REMOVE FROM SKIN OR TOOLS IMMEDIATELY.**

10.2. Cured material is very difficult to remove. May use rubbing alcohol cautiously on skin. Uncured material can be removed from tools and surfaces with solvents such as alcohol, citrus removers or nail polish remover. Employ solvents cautiously; solvents are flammable; follow with soap and water as appropriate. Cured material may be removed mechanically. Avoid contact with strong acids and oxidizers.

11. CURING

11.1. Allow sealant to cure for a minimum of 2 hours before painting with a water-based latex paint and to cure for a minimum of 3 days before exposing to traffic. Allow 7 days to cure for temporary water immersion applications. Typical full cure in 3 to 7 days. Low humidity, cooler temperatures, and non-porous substrates will lengthen these times.

12. PRECAUTIONS

12.1. **WEAR IMPERVIOUS GLOVES**, such as nitrile, and eye protection.

12.2. SERVICE TEMPERATURE: -68 °C (-90 °F) à 94 °C (200 °F)

12.3. APPLICATION TEMPERATURE: 4 °C (40 °F) à 35 °C (95 °F)

12.4. STORAGE TEMPERATURE: 4 °C (40 °F) à 24 °C (75 °F)

12.5. Do not apply over silicones or other existing sealants. Do not apply to frozen surfaces. Avoid contact with alcohol and solvents during cure. Avoid contact with strong acids and alkalis. Avoid joints that are too deep. Joints between non-porous substrates require slightly longer cure-through time depending on surface area. Do not apply if rain is expected before sealant has partially cured. Wash skin and hands after use. Not recommended for aquariums and marine applications. Read SDS @ www.bomix.ca.

13. WARRANTY

13.1. NOTICE: Obtain the applicable LIMITED WARRANTY at www.bomix.ca/product-warranty. Or send a written request to BOMIX, Five Concourse Parkway, Atlanta, GA 30328, USA.