



DIAMITE NON-SAG CRACK FILLER

2-Part Epoxy Cartridge Crack and Joint Filler

1. Product Description

a. **Basic Use:** Diamite Non-Sag Crack Filler is a two-component, fast-setting epoxy gel packaged in special two-part caulk tubes. It is mixed automatically as it is extruded from the tubes with a special caulk gun supplied with the material. This low modulus system helps prevent future cracking. It will not run through cracks and stays flush with surface. There is no mess or waste since material is mixed only as needed. This product works very well for filling cracks in floors prior to applying coatings and toppings. Material can be coated over within hours.

b. **Features/Benefits:**

- Low modulus - resists cracking.
- Non-shrinking, 100% reactive non-volatile resins.
- Fast setting - minimizes down time.
- Can be used at various thicknesses.
- Resilient and tough under impact.
- Excellent for use in chemically aggressive environments.

c. **Typical Applications:** Cracks, control joints, sawcuts, channel filling.

d. **Limitations:** Do not use when service temperatures are expected to be over 150°F (66°C). Ambient placing temperatures should not be under 45°F (7°C).

e. **Composition:** Diamite Non-Sag Crack Filler is a two-part system composed of a resin and a hardener. It is packaged in special cartridges so the material is mixed when it is extruded from the cartridges using a special two-component caulk gun.

f. **Color/Appearance:** Light amber.

2. Packaging

Diamite Non-Sag Crack Filler is available in 22-oz. two-part caulk tubes.

3. Estimating/Yield

Diamite Non-Sag Crack Filler yields 39.7 cubic inches per 22-oz. dual cartridge. One cartridge set will fill 26 lineal feet of crack at 1/4 inch wide X 1/2 inch deep.

4. Technical Data

a. **Flexural Strength:** ASTM C 348, 28 days; 3,600 psi (25 MPa).

b. **Bond Strength:** ASTM C 882, 28 days; 2,500 psi (17 MPa).

c. **Working Time:** 40 minutes

d. **Modulus of Elasticity:** ASTM C 469, 3.1×10^6 psi (2.1×10^4 MPa).

e. **Coefficient of Thermal Expansion:** ASTM C 531, 12.6×10^{-6} in/in/°F (22.7×10^{-6} mm/mm/°C).

f. **Chemical Resistance:**

• Sulfuric Acid, 15%:	<i>Excellent</i>
• Hydrochloric Acid, 15%:	<i>Excellent</i>
• Caustic Soda, 15%:	<i>Excellent</i>
• MEK:	<i>Poor</i>
• Xylene:	<i>Good</i>
• Acetic Acid:	<i>Poor</i>
• Hydraulic Fluid:	<i>Excellent</i>
• Salt Solutions:	<i>Excellent</i>

5. Directions for Use

a. **Preparation:** Cracks and Joints must be clean and free of dust, oil, and other contaminants.

b. **Bonding:** No separate bonding agent is needed. The base concrete should be dry when Diamite Non-Sag Crack Filler is placed.

d. **Ambient Conditions:** Temperatures will affect the working time and cure time of Diamite Non-Sag Crack Filler. A cold environment will delay set time and extend working time. A warm environment will hasten the curing rate. Keep all materials as close to 70°F (21°C) as possible. The maximum temperature range for application is 45°F (7°C) to 90°F (32°C). Contact Metalcrete Industries for recommendations outside this range.

f. **Mixing:** Blending of the two-component epoxy is accomplished automatically by the special mixing tube supplied with the two-part cartridges. The material is mixed at the correct proportion as it is extruded from the cartridges with the special two-component caulk gun.

- g. **Placing:** Apply like an ordinary caulk material.
- h. **Finishing/Curing:** At 70°F (21°C) Diamite Non-Sag Crack Filler becomes firm within 3 hours. Coatings and toppings can be applied as soon as the material is firm enough to allow a brush or roller to pass over it without pulling the material out of the crack or joint. Complete cure takes 3 days.
- i. **Clean-Up:** Small hand tools and equipment may be cleaned with Waterzall Concentrate and warm water or DL Solvent. Clean all tools before hardening.
- j. **Maintenance:** In extremely aggressive chemical environments, check grout for chemical attack every 6 months.

6. Availability

Diamite Non-Sag Crack Filler is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

7. Warranty

Diamite Non-Sag Crack Filler is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



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