

Selection & Specification Data

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| Generic Type | Modified polyurea |
| Description | Reactamine Joint Seal HB is a 2-component 100% solids, polyurea-based joint sealant that cures in approximately 30 minutes. It works equally well with asphalt and concrete and protects interior vertical or horizontal control joints up to a 1/2 inch wide from spalling, chipping and breakdown. This product can be applied at temperatures ranging from 0° to 150°F (-18° to 65°C) and possess excellent chemical resistance, water resistance and thermal stability at both high and low temperatures. |
| Features | <ul style="list-style-type: none"> • 100% solids; zero VOC • Fast cure times • USDA compliant for non-direct food contact • Has a functional temperature range of 0° to 250°F (-18°C to 121°C) • Excellent water resistance, chemical resistance, and thermal stability at high & low temperatures • Works well with asphalt or concrete |
| Color | Standard colors: Unpigmented (0000) and Gray (0700) |
| Recommended Thickness | This product is a self-leveling joint seal to fill joints from 1/8" to 1/2" wide and up to 3" in depth. A typical joint of 1/2" wide by 1/2" deep will fill 77 lineal feet per gallon. |
| Solids Content | By Volume 100% |
| VOC Values | As Supplied 0.00 |
| Topcoats | Acrylics, Epoxies, Polyureas |

Substrates & Surface Preparation

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| General | The product adheres well to sound concrete substrates. All surfaces should be free of moisture, loose particles, and debris. Products may be applied using plural component spray equipment, hand mixing, or plural component cartridges. When hand mixing care must be taken to mix and pour quickly as product is designed to gel quickly. |
| Concrete | <p>New Concrete: Saw cut concrete at least one inch deep and vacuum joint for any loose dust and debris. Backer rods may be used to prevent excessive material loss through "sinkers".</p> <p>Aged Concrete: Remove old or existing joint materials and make fresh saw cuts to freshly opened concrete to receive joint seal material. Then follow procedures as for new concrete.</p> |

Performance Data

| Test Method | System | Results |
|---|-----------------------|----------------------------|
| Abrasion (ASTM D4060) CS17 wheel; 1000 gm weight; 1000 cycles | Reactamine Joint Seal | 40 mg |
| Adhesion over Concrete (ASTM D4541) | Reactamine Joint Seal | 400 psi (concrete failure) |
| Elongation ((ASTM D412) | Reactamine Joint Seal | 400% |
| Flexibility (ASTM 1737) | Reactamine Joint Seal | Pass (1/8" Mandrel) |
| Hardness (ASTM D2240) | Reactamine Joint Seal | Shore A: 85 |
| Tear Strength (ASTM D624) | Reactamine Joint Seal | 450 pli |
| Tensile Strength (ASTM D412) | Reactamine Joint Seal | 1500 psi |

Mixing & Thinning

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| Gel Time | 4-5 Minutes |
| Mixing | Thoroughly mix in a 1:1 ratio by volume. |

Application Procedures

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| General | Apply mixed material into joint to the full depth and slightly overfill. Allow to cure for a minimum of 15 minutes before shaving level with concrete. |
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Application Conditions

| Condition | Material | Surface | Ambient | Humidity |
|-----------|----------------|----------------|----------------|----------|
| Minimum | 50 °F (10 °C) | 0 °F (-18 °C) | 0 °F (-18 °C) | 0% |
| Maximum | 170 °F (77 °C) | 150 °F (66 °C) | 120 °F (49 °C) | 85% |

Industry standards are for substrate temperatures to be 5°F (3°C) above the dew point. Caution: This product is moisture sensitive and needs to be protected from high humidity, dew and direct moisture contact until cured. Application and/or curing in humidity above maximum, or exposure to moisture from rain or dew may result in a loss of gloss, micro bubbling, and/or blistering of the product.

Curing Schedule

| Surface Temp.* | Dry to Receive Light Traffic |
|----------------|------------------------------|
| 35 °F (2 °C) | 2.5 Hours |
| 50 °F (10 °C) | 1.5 Hours |
| 75 °F (24 °C) | 60 Minutes |

Cleanup & Safety

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| Cleanup | Contact Carboline Technical Service for cleaning recommendations. In case of spillage, absorb and dispose in accordance with local applicable regulations. |
| Safety | Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Persons should wear proper personnel protection equipment. |

Reactamine[®] Joint Seal HB

Cleanup & Safety

Caution This product does not contain flammable solvents; however, clean-up solvents that may be used do contain flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

Packaging, Handling & Storage

Shipping Weight (Approximate) 9.3 lbs/gal (4.2 kg/gal)

Flash Point (Setaflash) Part A: 400°F (204°C)
Part B: >200°F (>93°C)

Packaging 9.5 gal and 106 gal kits
Dual-cartridge packs are also available (12 dual sets per carton)



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