



Thinset Novolac Adhesive - Carbon

SELECTION & SPECIFICATION DATA

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| Type | Conductive novolac epoxy tile adhesive |
| Description | Thinset Novolac Adhesive - Carbon is a 100% solids, 3-component, carbon-filled novolac epoxy tile, brick and floor paver adhesive. |
| Uses | High strength bonding adhesive for standard and electrically conductive tile, ceramic, paver, acid brick, masonry, carbon brick, or graphite tile linings and flooring in food, beverage, chemical, or pharmaceutical process areas subject to: <ul style="list-style-type: none"> • Severe impact • Thermal shock • Strong sulfuric acid • Strong caustic soda • Nitric/HF pickle liquor • Solvents and other flammable fluids |
| Features | <ul style="list-style-type: none"> • Exceptional adhesive bond strength • Strongly adheres fully vitrified and graphite tiles to concrete • Resistant to strong acids, alkalis and solvents • Electrically conductive • Enhances thermal shock resistance of bonded ceramic or masonry linings • Low odor • Excellent handling • Damp surface tolerant • Electrically conductive • Suitable for use on vertical surfaces |
| Limitations | <ul style="list-style-type: none"> • Not for use beyond its chemical resistance or thermal capabilities. Consult Armor with specific questions. |

INSTALLATION GUIDANCE

Reference Specifications CES-302 Installation of chemical resistant brick flooring using the bricklayer's method of construction and direct bond technique

CES-309 Installation of corrosion-resistant tile/brick using the tile setter's method of construction

Installation Conditions

Thinset Novolac Adhesive - Carbon is formulated for ideal handling at 70°F (21°C). Materials and substrate should be acclimated to the air temperature prior to installation, and the air temperature should be between 50°F (10°C) and 90°F (32°C) during installation and cure. For installation temperatures between 35°F (2°C) and 50°F (10°C), substitute Epoxy Cold Room Hardener for 6711 Hardener. Bricks or tiles must be clean, dry and neutral pH.

Ratio

For installation temperatures between 50°F (10°C) and 90°F (32°C), use 6711 Hardener at the following mix ratios:

1.0 resin: 0.51 hardener: 2.3 filler by weight
5 resin: 3 hardener by volume (liquids only)

For installation temperatures between 35°F (2°C) and 50°F (10°C), use Epoxy Cold Room Hardener at the following mix ratios:

1.0 resin: 0.16 hardener: 1.8 filler by weight
5 resin: 1 hardener by volume (liquids only)

Mixing

Pour measured quantity of Resin into clean, dry mixing vessel. Slowly add measured quantity of hardener to resin and mix thoroughly. After liquids are mixed completely, add filler and mix until Filler is thoroughly wetted and adhesive is creamy, free of lumps and trowelable.

Work Life

30-40 minutes at 70°F (21°C).

Work life is shorter at higher temperatures. A larger volume of mixed material will have a shorter work life than a smaller volume.

Cleanup

Xylene or methyl ethyl ketone (MEK)

CURE TIME

| Brick or Tile Temperature | Initial Set | Heavy Traffic | Full Cure |
|----------------------------------|--------------------|----------------------|------------------|
| 70°F (21°C) | 4-6 hours | 36 hours | 7 days |



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PACKAGING, ESTIMATING & HANDLING

| Product | Code | Packaging |
|------------------------------|-------|---|
| 6710 Resin Gray | 19591 | 4 x 7.8 lb (0.8 gal) can case |
| 6711 Hardener | 19593 | 4 x 4.0 lb (0.5 gal) can case |
| Penntrowel L/F Filler-Carbon | 29446 | 36 lb (16.4 kg) bag |
| Epoxy Cold Room Hardener | 29447 | 2.5-gal (9.5 L) 20 lb (9.1 kg) jerrycan |

A 119 lb (1.14 ft³) unit consists of 1 case of resin, 1 case of 6711 Hardener, and 2 x 36 lb bags of filler.

When using Epoxy Cold Room Hardener, 92 lb (0.88 ft³) of mixed material consists of 1 case of resin, 5 lb of Epoxy Cold Room Hardener and 56 lb of filler.

Theoretical Coverage

A 119 lb unit will cover 110 sf (10.2 m²) at 1/8-inch (3.2 mm) or 145 sf (13.5 m²) at 3/32-inch (2.4 mm) thickness.

92 lb of Thinset Novolac Adhesive-Carbon with Epoxy Cold Room Hardener will cover 85 sf (7.9 m²) at 1/8-inch (3.2 mm) or 113 sf (10.5 m²) at 3/32-inch (2.4 mm) thickness.

Allow for loss in mixing and use.

Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with Armor.

SAFETY

Safety

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation

Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

| Property | Typical Value |
|---|---|
| Color | Black |
| Density, ASTM C138 | 104 lb/ft ³ (1,666 kg/m ³) |
| Compressive strength, 24-hour, ASTM C306 | > 11,000 psi (75.8 MPa) |
| Tensile strength, 7-day, ASTM C307 | > 2,500 psi (17.2 MPa) |
| Flexural strength, 7-day, ASTM C453 | > 4,500 psi (31 MPa) |
| Adhesion to brick pavers | > strength of brick |
| Adhesion to concrete | > strength of concrete |
| Water absorption, ASTM C413 | < 0.2% |
| Service temperature at bond line under tile | 190°F (88°C) |

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