

CE-158b
11/13 Supersedes 08/01

THINSET[®] NOVOLAC ADHESIVE - CARBON GRADE

DESCRIPTION

THINSET Novolac Adhesive-Carbon is a three-component novolac epoxy based adhesive used to bond chemical resistant brick pavers and tiles. THINSET Novolac Adhesive-Carbon is formulated to have an easy-handling, buttery consistency to promote full bed joints of a nominal 1/8" thickness. THINSET Novolac Adhesive-Carbon provides a tough resilient, thermal shock and corrosion resistant adhesive. THINSET Novolac Adhesive-Carbon may also be employed to bed steel floor plate. **Consult Corrosion Engineering specification [CES-309](#) for complete installation details.**

AREAS OF USE

Because of its strength and resilience, THINSET Novolac Adhesive-Carbon is ideal for bonding tile, pavers and steel floor plates in areas where there is heavy wheeled or foot traffic, impact or abrasive wear, or thermal shock. Its superior chemical resistance makes it applicable in dairies, packing houses, chemical processing areas and wherever protection from severely corrosive conditions is required. THINSET Novolac Adhesive-Carbon may be used with either the tile setters or brick layers method of construction.

OUTSTANDING FEATURES

- Forms strong tenacious and resilient bond.
- Economical. Narrowest practical joint depth may be used.
- Superior resistance to strong, hot caustic soda.
- Excellent corrosion resistance to moderate acids, alkalies, and solvents.
- Excellent handling properties.
- Pre-portioned for easy mixing.
- Good resistance to thermal shock.
- Good tolerance for damp surfaces.
- Low odor level - ideal for repairs to operating plants.
- Carbon filler imparts electrical conductivity.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	THINSET Novolac Adhesive
Color	Black
Working Life / Initial Set @70°F (21°C)	30-40 minutes / 4-6 hours
Compressive Strength (ASTM C-306)	16,500 psi (114 MPa)
Tensile Strength (ASTM C-307)	3,000 psi (21 MPa)
Flexural Strength (ASTM C-453)	6,000 psi (41 MPa)
Coefficient of Expansion (ASTM C-531)	35.0 x 10 ⁻⁶ in/in/°F (19.4 x 10 ⁻⁶ cm/cm/°C)
Adhesion: To brick pavers To concrete	Greater than the strength of brick Greater than the strength of concrete
Maximum Service Temperature (at bond line)	190°F (88°C) Continuous / 250°F (121°C) Intermittent
Water Absorption (ASTM C-413)	0.2%
Mix Ratio (Resin: Hardener: Filler) by weight	1.0 : 0.51: 3.5

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

COMPONENT	CODE	PACKAGE SIZE	COVERAGE
6710 Resin-Gray	19591	4 x 7.8 lbs (0.80 gal) cans/case	A 119 lb unit consists of 1 case resin, 1 case hardener, and 2 x 36 lb bags filler. A 119 lb unit will cover 127 sq ft. @ 1/8" thickness.
6711 Hardener	19593	4 x 4.0 lbs (0.50 gal) cans/case	
PT L/F Filler-Carbon	29446	2 x 36 lbs (16.3 kg) bags	

SAFETY PRECAUTIONS /DISCLAIMER

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 [material safety data sheets](#) before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.



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