

SELECTION & SPECIFICATION DATA

Type	Urethane asphalt joint sealant
Description	Tufchem II Joint Sealant is a black non-sag, 2-component flexible urethane asphalt joint sealant.
Uses	<ul style="list-style-type: none"> • Vertical and horizontal expansion joints • Concrete and metal surfaces
Features	<ul style="list-style-type: none"> • Chemical resistant • Good elongation and recovery • Easy to mix • High bond strength
Limitations	<ul style="list-style-type: none"> • Not suitable for heavy traffic areas. • Limited resistance to ultraviolet light • Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions.

INSTALLATION GUIDANCE

Reference Specifications	CES-334 Tufchem II Membrane Installation Specification CES-130 Installation Specification for ErgonArmor Joint Sealants	
Installation Conditions	Tufchem II Joint Sealant 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. Bonding surfaces must be clean, dry and neutral pH.	
Ratio	45.0 base: 1.0 hardener	
Mixing	<p>Mix Part A base for 1 minute. Slowly add Part B Urethane Asphalt Hardener to Part A. Mix thoroughly for 3 full minutes. Do not mix partial kits.</p> <p>Consult ErgonArmor specification CES-334 titled Tufchem II Membrane Installation Specification, section 7.0 for comprehensive mixing instructions.</p>	
Work Life	<p>45-60 minutes at 70°F (21°C)</p> <p>Work life is shorter at higher temperatures.</p>	
Cleanup	Mineral spirits	
<u>CURE TIME</u>		
Temperature	Tack Free	Full Cure
70°F (21°C)	2-4 hours	72 hours
<u>SAFETY</u>		
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.	

PACKAGING & ESTIMATING

Product	Code	Packaging
Tufchem II Joint Sealant Kit	29570	1.5-gallon kit

A 1.5-gallon kit consists of 1 x 12.8 lb pail of Part A base and 1 x 130 gm bottle of Part B hardener.

Theoretical Coverage 1/4 x 1/2-inch - 232 lineal feet (70.7 m) per unit
 1/2 x 1-inch - 58 lineal feet (17.6 m) per unit

Storage & Shelf Life Maintain products in original packaging and sealed until ready for use. Estimated shelf life for the Part A base and Part B hardener is 3 years when stored in a dry area at 70°F (21°C).

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

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Black
Consistency	Non-sag
Density, ASTM C138	8.5 lb/gal (1,020 kg/m ³)
Cured hardness, Shore A	30-40
Tensile strength, ASTM D412	>120 psi (1.5 MPa)
Elongation, ASTM D412	>100%
Adhesion to concrete, ASTM C321	Exceeds tensile strength of Tufchem II Joint Sealant
Adhesion to steel, ASTM D412	>120 psi (1.5 MPa)
Primer for concrete	Penntrowel™ Epoxy Primer or Novocoat™ SC1100 Concrete Primer

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