

 ErgonArmor™	
	TECHNICAL INFORMATION

CES-130

04/2025 SUPERSEDES 10/12

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INSTALLATION SPECIFICATION FOR ERGONARMOR JOINT SEALANTS

1. SCOPE

- 1.1 This specification governs the installation of Flexjoint™ Joint Sealant as outlined on TDS CE-133 and Tufchem™ II Joint Sealant as outlined on TDS CE-135. For Flexjoint U500 Sealant installation details consult TDS CE-134 and installation specification CES-134.
- 1.2 Tufchem II Joint Sealant is designed for use in non-load-bearing sealant applications where maximum joint movement is desired. Tufchem II joint Sealant can be applied in vertical applications.
- 1.3 Flexjoint Joint Sealant is designed to be used in horizontal applications only and is typically used with acid brick paver and tile flooring systems or other areas where the anticipated stress will be a compression load due to growth of brick, or in areas where heavy traffic across jointing may be expected such as heavy carts or steel-wheeled traffic.
- 1.4 Flexjoint Joint Sealant can also be used for concrete control joints assuming the concrete has achieved a 28-day cure and most of the shrinkage has occurred.
- 1.5 For control joints Flexjoint U500 Sealant (TDS C-134) may also be considered. Flexjoint U500 is also suggested for crack repair filling. This procedure is outlined in specification CES-134 and drawing D-1018. Unlike Flexjoint Joint Sealant the Flexjoint U500 Sealant requires special installation equipment.

2. JOINT DESIGN

- 2.1 Flexjoint Joint Sealant has limited movement ability and is typically used in joints where load transfer across a joint while retaining some movement ability is the desired property. It is also commonly used in chemical service with acid brick and paver applications where the anticipated compression stress is caused by irreversible growth of the ceramic unit. The joint design for Flexjoint Joint Sealant is not restricted to the 2:1 profile suggestion in section 2.3 as load transfer and not movement is usually the desired purpose.
- 2.2 For Flexjoint Joint Sealant consult drawings D-1018 and D-1020. These detail typical joint configurations for brickwork and concrete.
- 2.3 Tufchem II Sealant is designed to accommodate movement as is typically found in expansion joint applications. A 2:1 width:depth sealant profile is suggested. For Tufchem II Joint Sealant consult drawing D-1021.

3. SURFACE PREPARATION

- 3.1 Where new joint surfaces of concrete are clean, remove laitance and loose particles by brushing or with air blast. For formed concrete, clean the surfaces by power wire brushing or lightly grit blasting the edges of the panel. Be sure that top edges of joints are square, sharp and clean, and sides are at 90" from surface.
- 3.2 Priming is required for new concrete when using Flexjoint Joint Sealant. If concrete has achieved 28 days of age or more no primer is required.
- 3.3 For Tufchem II Joint Sealant always prime the concrete with Penntrowel Epoxy Primer or SC1100.

4. INSTALLATION

- 4.1 To ensure a neat appearance tape alongside the joint to protect concrete, brick or tile from overflow. Take care not to allow tape to come into contact with surfaces to which the sealant must adhere. Remove tape immediately after application.
- 4.2 Mix and apply sealant in accordance with instructions on the applicable TDS.
- 4.3 Flexjoint Joint Sealant and Tufchem II Joint Sealants are ideally applied at temperatures between 50°F and 90°F (10°C-32°C). Work life for both sealants is approximately 45 minutes at temperatures between 50°F and 90°F (10°C-32°C).
- 4.4 Tack free time for Tufchem II Joint Sealant is approximately 4 hours at 70°F (21°C).
- 4.5 Flexjoint Joint Sealant sets in 6-8 hours at 70°F (21°C) but can retain a tacky surface for up to 24 hours, and longer at cooler temperatures. Lightly dust the surface of Flexjoint Joint Sealant with a fine silica powder to eliminate the surface tackiness if placing into service before the surface-tack disappears.
- 4.6 For deep joints, fill in two closely succeeding applications to allow air bubbles to escape. Fill the joint 2/3 full in the first pour, permitting filler to settle, then fill completely in the second pour.

5. CLEANUP

- 5.1 Tools must be scraped clean if they have cured material on them. Mineral spirits will help remove remaining residue. Clean hands with waterless hand cleaner or soap and water.

6. SAFETY PRECAUTIONS DISCLAIMER CONTACT INFORMATION

- 6.1 Consult current Safety Data Sheets (SDS's) before commencement of work.
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- 6.3 Please contact ErgonArmor for further information at +1-601-933-3595 or ErgonArmorCustServ@ergon.com.

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