Flexjoint™ U500 Sealant

SELECTION & SPECIFICATION DATA

Type

Polyurea joint sealant

Description

Flexjoint U500 Sealant is a self-leveling, two component polyurea joint sealant for heavy traffic areas.

Features

- Color stable
- Fast setting
- Low temperature cure
- Can be installed in operating freezers
- Intended for use where final operating temperatures are as low as -20°F (-29°C)
- Available in twin cartridge caulk tubes and pails
- Supports heavy traffic loads over joints
- Absorbs irreversible brick growth stresses
- Chemical resistant, including jet fuel
- High bond strength
- USDA compliant

Uses

- Resinous flooring joints
- Acid brick and tile flooring joints
- Polymer concrete flooring joints
- Concrete control and construction joints
- Concrete isolation joints
- Concrete cracks
- Freezers

Limitations

- Not suitable for vertical joint sealing
- Not for use in expansion joints
- May discolor in ultraviolet light, but properties are unaffected
- Not for use beyond its chemical resistance or thermal capabilities. Consult Armor with specific questions

INSTALLATION GUIDANCE

Reference Specifications

CES-134 Installation Specification Flexjoint U500 Sealant

Installation Conditions

Flexjoint U500 Sealant is formulated for use between 32°F (0°C) and 90°F (32°C) during installation. Concrete must be clean, neutral pH, and dry with 5% maximum moisture content per ASTM F2170 and surface temperature at least 5°F (3°C) above the dew point.

In cooler temperatures, material shall be maintained at a minimum temperature of 70˚F (23˚C) for best results. In warmer temperatures, store and precondition the product in a cool environment.

Ratio

1A : 1B by volume

Mixing

The Part A pail component should be pre-mixed, using a Jiffy Mixer or helix paint mixer for between 1.5 and 2 minutes before adding the Part B pail component.

Dual-cartridge units should be shaken vigorously to ensure pigment redisbursement. Follow cartridge mixing instructions shown on product packaging.

Work Life

Less than 1 minute at 70°F (21°C)

Work life is shorter at higher temperatures.

Cleanup

Mineral spirits

CURE TIME

TEMPERATURE	MIXED GEL TIME	TACK FREE	FULL CURE
70°F (21°C)	60 seconds	2- 3 minutes	60 minutes
32°F (0°C)	5 minutes approx.	2 hours	12 hours

If material sets up in static mixer nozzle, replace the nozzle with a new one.

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PACKAGING, ESTIMATING & HANDLING

PRODUCT	CODE	PACKAGING
Flexjoint U500 Sealant Case - Gray	29520	1 case consisting of 12 x 20 fl. oz (600 ml) tubesets. Each tubeset consists of a 10 fl. oz (300 ml) tube of Part A joined to a 10 fl. oz (300 ml) tube of Part B.
Flexjoint U500 Sealant Case – Black	29492	1 case consisting of 12 tubesets. Each tubeset consists of a 10 fl. oz (300 ml) tube of Part A joined to a 10 fl. oz (300 ml) tube of Part B.
Flexjoint U500 Sealant Part A Resin - Gray	29659	5-gallon pail
Flexjoint U500 Sealant Part B Hardener	29658	5-gallon pail

A 10-gallon unit consists of 1 x 5-gallon pail of Part A and 1 x 5-gallon pail of Part B

Theoretical Coverage

Joint Size	Coverage per case of tubesets	Coverage per 10-gallon unit
1/8″ x 1.5″ (3 x 38 mm)	193 lf (59 lm)	1027 lf (313 lm)
1/8″ x 2″ (3 x 51 mm)	144 lf (44 lm)	770 lf (235 lm)
3/16″ x 1.5″ (4.7 x 38 mm)	128 lf (39 lm)	684 lf (209 lm)
3/16″ x 2″ (4.7 x 51 mm)	96 lf (29 lm)	513 lf (156 lm)

Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life of Flexjoint U500 Sealant 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 various 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	Gray or black
Consistency	Self-leveling
VOC content	0
Shore A hardness, ASTM D2240	80 ±1
Tensile strength, ASTM D638	505 psi (3.48 MPa)
Tensile elongation, ASTM D638	152%
Viscosity Part A	1535 cP
Viscosity Part B	2500 cP

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