

ULTRALIT FLEX PU40

ONE COMPONENT POLYURETHANE SEALANT

DESCRIPTION

Ultralit Flex PU40 is one-component, medium-modulus polyurethane adhesive-sealant for multi-purpose use, which is curing by air moisture. It has excellent adhesion to most surfaces, forms flexible and durable joints. It can be used for bonding and sealing various building materials: concrete, wood, aluminum, galvanized and painted metal, plastic, glass, stone, ceramics, etc.

BENEFITS

- Permanent elasticity
- No shrinkage
- Simultaneously glues and seals
- Primerless adhesion to almost all substrates
- Replaces rivets and mechanical fasteners
- Excellent thixotropic properties
- Has sound insulating properties, dampens vibration well
- Excellent resistance to aging and weathering - suitable for both indoor and outdoor use
- Can be painted over with most water-based paints (do a test first)
- Complies with BS 6920 and can be used in contact with drinking water
- Meets the requirements of VOC content specifications in LEED credit EQc4.1 "Low emitting products" of SCAQMD rule 1168

CAN BE APPLIED IN VERTICAL OR HORIZONTAL JOINTS OF

- Roads and Highways
- Shopping malls
- Supermarkets
- Parking garages
- Airport hangars
- Warehouses
- Distribution centers
- Manufacturing plants
- Schools and universities
- Medical facilities
- Office buildings
- and others...

PHYSICAL PROPERTIES

| | |
|--|-------------------------------|
| Chemical base | Polyurethane |
| Density | 1,30 g/cm ³ |
| Color | White, gray, black |
| Working deformation of joint | 25% |
| Skin formation time at 23°C and 50% RH | 50-60 min |
| Shore A hardness (ISO 868) | 40±5 after 28 days |
| Modulus of elasticity at 100% (ISO 8339) | 0,30 - 0,40 N/mm ² |
| Tensile strength (ISO 37 DIN 53504) | 2,0 - 2,5 N/mm ² |
| Elongation at break (ISO 37 DIN 53504) | ≥ 400% |
| Cure speed at 23°C and 50% RH | ≥3 mm/24h |
| Application temperature | from +3°C to +40°C |
| Resistance to temperatures | -40°C / +90°C |

CHEMICAL RESISTANCE

Long-term resistance to fresh water, sea water, lime water, diluted acids and aqueous cleaning agents. For short contact time - resistant to gasoline, grease and mineral oil.

PACKAGING



Ultralit Flex PU40 is packaged in 600 ml soft foil tubes (20 tubes per box). There are 40 boxes / 800 tubes on a pallet

ESTIMATED COVERAGE RATES

| | | | | | | | |
|--------------------------|----|----|----|----|----|-----|-----|
| Joint width, mm | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| Joint depth, mm | 5 | 6 | 8 | 10 | 12 | 15 | 15 |
| Joint length / 600 ml, m | 20 | 10 | 5 | 3 | 2 | 1,3 | 1,1 |

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(continuation)

APPLICATION

Precautions / Limitations:

- Ultralit Flex PU40 can be overpainted, however some paints may crack if seam moves. In such cases, a preliminary test is recommended.
- Do not apply on surfaces without first cleaning them from traces of silicone.
- Application of sealant at temperatures below 3°C and above 40°C is not recommended.
- It is not recommended to apply sealant to frozen, damp surfaces.

Surface preparation:

- The surface must be dry, clean and free of grease, because uncleaned surfaces negatively affect adhesion. If necessary, remove excess particles (dirt, rust, light paint) with a compressor, sandpaper or a brush. Glass, metal and other non-porous materials must be uncoated and cleaned with solvents. When using solvents, avoid sources of ignition and carefully follow the manufacturer's safety instructions. Clean the surface if necessary. After sanding, the surface must be degreased again, allowing the surface to dry after. It is recommended to clean concrete with a wire brush.

Application procedure:

- Ultralit Flex PU40 is applied with a manual or pneumatic or electric gun. Use a polyurethane primer if necessary. After the primer has dried, insert a polyethylene foam sealing cord (the diameter of the cord should be 25-30% larger than the joint width) into the joint, which does not adhere to the sealant, to avoid three-sided sealant adhesion. For joint widths less than 10 mm, the joint depth should be equal to the joint width. For seams more than 10 mm wide, the seam depth should be half the seam width. Use masking tape to protect the seam edges from dirt. Apply the sealant in one pass for narrow joints or three passes for wide joints, with the first two passes along the sides of the joint and the last in the middle. After application, it is necessary to smooth and seal the seam with a spatula soaked in soapy water. Remove the masking tape immediately.

- The sealant should be used within 24 hours after opening the tube. Otherwise, it may harden in the package. When used in cold weather, the product should be stored at a temperature not lower than 20°C before use. Avoid any contact with unpolymerized modified silicones, PU hybrids, silicone sealants, as well as ammonia, alcohols during the curing period.
- Hardened product can be removed with mineral spirits or other suitable solvent. Also, after curing, the material can be removed mechanically.
- Clean tools with acetone or other solvent immediately after use.

STORAGE

Ultralit Flex PU40 can be stored for 12 months in its original packaging at 5°-25°C in a cool dry place. Storage temperature should not exceed 25°C for extended periods of time. Store away from direct sunlight and heat sources.

SAFETY / HEALTH INFORMATION

KEEP OUT OF REACH OF CHILDREN. Wear gloves. Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

CUSTOMER SUPPORT

Ultralit Flex PU40 is available worldwide. For technical assistance, product information, Dealer location - visit our web site at www.ultralit.eu or email at info@ultralit.eu.