

# ULTRALIT FLEX PU50FC

## ONE COMPONENT HYBRID POLYMER-BASED ADHESIVE SEALANT

### DESCRIPTION

**Ultralit Flex PU50FC** is one-component, high-modulus hybrid polymer-based adhesive-sealant for multi-purpose use. It has excellent adhesion to most surfaces, forms flexible and durable joints, even damp substrates. It can be used for bonding and sealing various building materials: concrete, wood, aluminum, galvanized and painted metal, plastic, glass, stone, ceramics, etc.

### BENEFITS

- Quick curing
- Excellent adhesion even on damp substrates
- Permanent elasticity
- 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)
- Without silicone and isocyanates

### CAN BE APPLIED IN VERTICAL AND 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                            | Hybrid polymer         |
| Density                                  | 1,50 g/cm <sup>3</sup> |
| Color                                    | White, grey, black     |
| Skin formation time at 23°C and 50% RH   | 15 min                 |
| Shore A hardness (ISO 868)               | 45-55 after 28 days    |
| Modulus of elasticity at 100% (ISO 8339) | 0,90 - 1,00 MPa        |
| Tensile strength (ISO 37 DIN 53504)      | 1,4 - 1,6 MPa          |
| Elongation at break (ISO 37 DIN 53504)   | ≥ 100%                 |
| Cure speed at 23°C and 50% RH            | ≥3 mm/24h              |
| Application temperature                  | +5°C / +40°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 PU50FC is packaged in 600 ml soft foil tubes (20 tubes per box). There are 50 boxes / 1000 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 (m) / 600 ml | 20 | 10 | 5  | 3  | 2  | 1,3 | 1,1 |

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### APPLICATION

#### **Precautions / Limitations:**

- Ultralit Flex PU50FC can be overpainted, however some paints may crack if seam moves. In such cases, a preliminary test is recommended.

#### **Surface preparation:**

- The surface must be 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 PU50FC is applied with a manual or pneumatic or electric gun. 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.
- 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 PU50FC 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 PU50FC is available worldwide. For technical assistance, product information, Dealer location - visit our web site at [www.ultralit.eu](http://www.ultralit.eu) or email at [info@ultralit.eu](mailto:info@ultralit.eu).