

# FLEX PU-50 S

## Polyurethane adhesive and sealant with solvents

### Description

FLEX PU-50 S is a one-component, polyurethane adhesive and sealant with solvents providing:

- Resistance to temperature ranging from -30°C to +90°C.
- Excellent bonding to any kind of building material.
- High elasticity.
- Great resistance to aging (UV radiation and weather).
- Overpaintability after hardening, only with water-based paints.

### Fields of application

FLEX PU-50 S is suitable for sealing vertical and horizontal joints of 5-30mm width, on various materials like concrete, aluminium, steel, wood, glass, natural and artificial stones, etc., both indoors and outdoors. Also suitable for bonding these materials.

In case of grouting on natural or artificial stones, such as marble and granite, please contact ISOMAT's Technical Support Department.

### Technical data

Base:	polyurethane
Colors:	white, grey
Application temperature:	from +5°C to +40°C
Film formation:	30 min
Curing speed:	4 mm/day
Movement capability:	± 20%
Elastic recovery:	> 80%
Hardness according to SHORE A:	45 ± 5
Tensile strength (ISO 8339):	1,4 N/mm <sup>2</sup>
Modulus at 100% elongation: (ISO 8339)	0,75 N/mm <sup>2</sup>
Elongation at break: (ISO 8339)	440%

### Directions for use

#### 1. Substrate preparation

The substrate must be dry and free of dust, loose particles, grease, etc. The joint should be cleaned with a paintbrush or wire brush and then air-blasted.

To avoid undesirable soiling at joint edges, a self-adhesive paper tape is applied along the edges and then removed immediately after sealing the joint (before a film is formed).

#### 2. Application

The cartridge is inserted in the special gun and the nozzle is cut slantwise, so that it does not fit into the joint but barely touches and slides along the edges. FLEX PU-50 S is applied by moving the cartridge along the joint axis at a 45° angle. While still fresh, the sealant is leveled with a trowel.

Cleaning of tools:

Tools must be thoroughly cleaned with common solvents, while material is still fresh. If material has hardened, tools may only be mechanically cleaned.

### Consumption

- Joint 10mm x 10mm:  
1 cartridge / 3 m of joint length.
- Joint 5mm x 5mm:  
1 cartridge / 12 m of joint length.

### Packaging

- Cartridges of 310 ml.
- Sausages of 600 ml.

### Shelf life – Storage

9 months, in dry and frost-free conditions.

#### ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

MAIN OFFICES - FACTORY:

17th km Thessaloniki - Ag. Athanasios Road,  
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,  
Tel.: +30 2310 576 000, Fax: +30 2310 722 475

www.isomat.eu e-mail: support@isomat.eu