

ENESEAL PU

High performance elastomeric single component polyurethane sealant
ASTM C920 + DIN 18 540

DESCRIPTION

ENESEAL PU is a one part, moisture curing, low modulus, elastomeric joint sealant based on polyurethane. Suitable for movement and connection joints for indoor and outdoor applications. **ENESEAL PU** is a paintable weather resistant sealant that has versatile usage both as a sealant and a general adhesive in the construction industry for various substrates including concrete, steel, wood & GRP.

USAGES

- Prime-less sealing pre-cast panel joints, marble, glass, wood, galvanized steel, Aluminum and most of plastic surfaces
- Used for laying off roof tiles, ENESEAL PU cannot be applied on bituminous substrates, EPDM rubber, building materials which might bleed oils, or where aggressive chemicals exist

ADVANTAGES

- Weather resistant, suitable for external & internal applications
- Thixotropic which makes application easy using caulking gun
- Paintable with solvent-free or water-based paints after curing in static joints (i.e., around door perimeters)
- No crack or craze under UV exposures
- Non-sag, non-staining and no volume change
- Primer-less and exhibits firm adhesion to most building materials
- Permanent elasticity

TECHNICAL DATA

ENESEAL PU

Tack free time
(25 °C @50% R.H.)

Curing rate 25°C
(@50% R.H.)

Service Temperature

Elongation at Break
(ASTM D412)

Tear resistance
(ISO34)

Shore A Hardness
(DIN 53305)

Elastic Modulus
(ASTM D412)

(MAF) Movement
Accommodation Factor

Adhesion bond to
concrete

Specific Gravity

Colors Available

VOC

Typical values

60 – 120 min

2 mm/24 hours

-30 to 80°C

650%

10 N/mm

40±5 @28 days

0.4 N/mm² (MPa)

± 25%

> host concrete
cohesive strength

1.15 ± 0.03 g/cm³

Grey, light ivory &
others upon request

20grams/liter

STANDARD COMPLIANCE

ASTM C920 Type S, Grade NS, Class 25, use T1, NT, A, & M
TT-S-00230C Class A, Type II
DIN 18540

JOINT DESIGN AND COVERAGE

Standard design dimensions for concrete elements as per
DIN 18 540.

Product	Package
ENESEAL PU	600 ml Aluminum foil

Coverage		
Joint Width (mm)	Joint Depth (mm)	Length filled/sausage (m)
10	8	7.5
15	8	4.5
20	10	2.5
25	12	1.6
30	15	1.3

Stated consumptions data are for general guidance.
Actual consumption depends on the nature of substrate,
method of application and wastage.

USAGE INSTRUCTIONS

1. Surface preparation

Clean all joint surfaces and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. Roughen the surfaces, remove any laitance, and expose aggregate by light scrubbing or grit-blasting.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing, or by the use of the proprietary degreaser.

Any expansion joint filler must be checked to ensure it is tightly packed and no gaps or voids exist at the base of the sealing slot before positioning a bond breaker. The use of a bond breaker is not required in expansion joints containing cellular polyethylene joint filler, backing rod (**ENESEAL PBR**). For construction or contraction joints a bond breaker tape or back-up strip must be used.

2. Priming

The use of a primer is generally not required when using **ENESEAL PU**. However, where hard to bond substrates where highly porous substrates are in question, please contact ARKAZ local office for assistance on suitable primer choice.

3. Application

Cut and remove the end of the sachet and place sachet in the gun. Fit the nozzle and cut at 45 degrees to a suitable size for sealing the joint, Extrude the sealant firmly into the joint. Tool flush within 5 minutes of application to ensure good contact between the sealant and the substrate.

4. Cleaning

ENESEAL PU should be removed from tools, equipment and mixers using a solvent immediately after use. Hardened material can only be removed mechanically.

HEALTH & SAFETY

ENESEAL PU is not classified hazardous. Contains isocyanate.

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent material safety data sheet containing physical, ecological, toxicological, and other safety-related data.

STORAGE & SHELF LIFE

Original sealed container of **ENESEAL PU** has a shelf life of 12 months provided it is stored clear of ground in a dry shaded place below 25°C.

TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:
concretedoctor@arkaz.com

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27-June-2021