

**Definition / Tanımlama**

PURINSEAL EN 406 is a two-component, low viscosity polyurethane injection product. It quickly forms an elastic foam when in contact with water and provides a super elastic polyurethane injection that does not swell when not in contact with water. It is used in moving areas.

**Application Area / Uygulama Yeri**

- In moving cracks
- Applied following one-component injections for permanent sealing
- Tunnels
- For filling small voids in mining
- On dam walls
- Used to prevent gas permeability between surfaces
- For filling humid and dry areas
- Dilatation gaps.

**Advantages / Avantajlar**

- Concrete injection for ductile filling of cracks, voids and gaps (D) according to EN 1504-5:2004, and equipped with the CE marking
- Creates a super elastic structure when cured
- Good adhesion to dry or damp surface
- When injected into cracks in concrete, the resin will form a very flexible and impermeable barrier in both dry and moist conditions.
- The material tends to foam when mixed with water, so it is also suitable for widening gaps.
- Does not contain solvents
- Provides permanent sealing
- Short curing time
- Easy to use
- Free of VOCs, CFCs and halogens
- Excellent permeability

**Technical Properties / Teknik Özellikler**

No	Test	Resin / Reçine	Catalyst / Katalizör	Result / Sonuç	Unit / Birim	Test Code
1	Product	PURINSEAL EN 406	PURINSEAL CAT 101			
2	Appearance	Light Yellow	Light Yellow	Light Yellow	-	
3	Density	0,95 - 1,00	0,95 - 1,00	1,00 - 1,05	g/cm <sup>3</sup> (23°C)	ISO 2811
4	Viscosity	650 - 750	50 - 100	540 - 620	cP (23°C)	ASTM 2196
5	Mixing rate	100	100	-	v/v	
6	Start of reaction	-	-	5 - 10	second	ASTM D 7487
7	End of reaction	-	-	220 - 250	minute	ASTM D 7487
8	Pot Life (23oC)	-	-	30	minute	ISO 9514
9	Curing	-	-	1	hour	ASTM D 7487
10	Hardness	-	-	50	Shore A	ASTM D 2240
11	Free foam density			70	kg/m <sup>3</sup>	EN 14406
12	Expansion			15	times	EN 14406
13	Yield			14	liter/kg	EN 14406

**Preparation / Hazırlık**

The product prepared in the two-component injection machine should be injected into the placed packers. Since it has two components given as a set, it should not be mixed in the same chamber. When the components come together, they react quickly to form foam.

**Application / Uygulama**

The product prepared in the two-component injection machine should be injected into the placed packers. The machine pressure should be adjusted according to the viscosity of the product. Otherwise, the materials will not mix in a 1 : 1 ratio due to the viscosity difference between the components and the material will not come to a suitable form. The product should continue to be injected until the product given to the cracks comes back from the packers. The product applied with the help of packers starts to swell at the appropriate reaction time and fills the gaps.

\* Start of reaction with %10 water : 5 - 10 second

\* Start of reaction without water : 30 minutes

**Cleaning / Temizlik**

After the application, the packers should be removed from the holes. The injection foam flowing from the wall should be cleaned and the holes opened should be covered with mastic. The machine must be cleaned from the injection product inside with a suitable solvent. If there is any product left in the machine, the remaining products may block the machine as they form foam over time. After cleaning with the solvent, the oil should be passed through the machine. Prolonged contact solvent can damage device connections. Therefore, cleaning should be done carefully.

**Packing / Paketleme**

PURINSEAL EN 406 is shipped as set 10 kg, 20 kg and 25 kg.

**Storage / Depolama**

PURINSEAL EN 406 is stored in its packaging at a temperature of 5-30 oC without opening the cap, its shelf life is 12 months. Since the product reacts with moisture in the air, it is recommended to use the opened packages completely. Recommended that the half packages you do not use, should be closed very well and if possible, nitrogen gas should be used in the closing process.

**Safety and Health / Güvenlik ve Sağlık**

PURINSEAL EN 406-B contains isocyanates. Since the product reacts in contact with water, avoid contact with your eyes. Therefore, gloves and goggles should definitely be used while working. Since it is solvent-free, it is not necessary to use any mask especially. If the product comes into contact with your skin, wash with plenty of water and soap. Dispose of the packages after use in accordance with the regulations.

**Note**

The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Bu teknik formdaki veriler kendi deneyimlerimiz ve bilgilerimiz referans alınarak hazırlanmıştır. Ancak bağlayıcılığı yoktur. Yapıya, uygulama amacına ve özellikle yerel koşullara göre ayarlanmalıdır. Verilerimiz, uygulama sırasında uyulması gereken mühendislik kurallarını referans almıştır. Satış teslim, hizmet şartlarımız ve koşullarımız kapsamında bu verilerin doğruluğundan sorumlu olmaktayız. Çalışanlarımızın bilgilendirme formlarımızdaki yer alan verilerden farklı önerileri ancak yazılı olarak verilmesi halinde bağlayıcıdır. Kabul edilen mühendislik kurallarına her zaman uyulmalıdır.

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