

Definition / Tanımlama

PURINSEAL EN 402 is a two-component, non-foaming, fast-reacting polyurethane injection resin. It reacts in a dry environment and forms a hard seal. In contact with water, it creates a hard foam up to 2 times its volume. This resin was developed for the consolidation and waterproofing of structures with high water flow or pressure. It is also used for stabilization of boreholes, porous rocks, sand, soil, brick and concrete structures. It adheres very well to concrete structures, rocks, sand and walls.

Application Area / Uygulama Yeri

- Where it is preferred to react quickly with water
- In soil reinforcement works
- Ground stabilization in mining
- Tunnels
- On dam walls
- In fixed cracks
- Prevention of gas permeability between surfaces
- For filling damp and dry areas
- Especially in soil stabilization

Advantages / Avantajlar

- Concrete injection for ductile filling of cracks, voids and interstices (D) according to EN 1504-5:2004, and provided with the CE marking
- Fast reaction time
- Activates in anhydrous environments
- Low viscosity
- Solvent-free
- Provides permanently sealing
- High strength
- Short curing time
- Easy to use
- Does not contain VOC, CFC, and halogen
- Excellent penetrability

Technical Properties / Teknik Özellikler

No	Test	Resin / Reçine	Catalyst / Katalizör	Result / Sonuç	Unit / Birim	Test Code
1	Product	PURINSEAL EN 402	PURINSEAL CAT 101			
2	Appearance	Transparent	Light Yellow	Amber	-	
3	Density	1,05-1,10	0,95 - 1,00	1,13-1,17	g/cm ³ (23°C)	ISO 2811
4	Viscosity	250-350	50 - 100	250-350	cP (23°C)	ASTM 2196
5	Mixing rate	100	117		w/w	
6	Hardness	-	-	70	Shore D	ASTM D 2240
7	Start of reaction	-	-	10 - 20	second	ASTM D 7487
8	End of reaction	-	-	40 - 60	second	ASTM D 7487
9	Temperature of reaction			< 150	°C	

Preparation / Hazırlık

In the beginning, holes are drilled in the area of the crack to inject the product into the cracks. The drilled holes are cleaned of dust and packers are placed. Then, with a two-component injection machine, the product can be injected at the appropriate pressure. The products are applied with a two-component injection machine. When the components come together, it reacts quickly and hardens. Therefore, it should never be mixed until it is applied to the crack.

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.

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 402 is shipped as set 10 kg, 20 kg and 25 kg.

Storage / Depolama

PURINSEAL EN 402 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. It is 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 402-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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