

**Definition / Tanımlama**

PURINSEAL EN 405 is a two component injection resin, used for filling low volume voids and small cracks that occur in tunnels and mines. This product, which is especially used in coal mines, creates 100oC (max.) heat with the reaction of two components and eliminates the risk of coal ignition. Coal ignites above 120oC. For this reason, the reaction heat of the products to be used in coal mines is very important.

**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**

- Fast reaction time
- Activates in anhydrous environments
- Low viscosity
- Solvent-free
- Provides permanently sealing
- High strength
- Shore D 70
- 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 405	PURINSEAL CAT 101			
2	Appearance	White	Light Yellow	Amber	-	
3	Density	1,05-1,10	0,95 - 1,00	1,13-1,17	g/cm <sup>3</sup> (23°C)	ISO 2811
4	Viscosity	400-500	50 - 100	325-425	cP (23°C)	ASTM 2196
5	Solid content	100	100	100	%	ISO 3251
6	Hardness	-	-	70	Shore D	ASTM D 2240
7	Mixing rate	100	117		w/w	
8	Mixing rate	1	1	1:1	v/v	
9	Start of reaction	-	-	40	second	ASTM D 7487
10	End of reaction	-	-	120	second	ASTM D 7487
11	Curing	-	-	1	hour	ASTM D 7487
12	Temperature of reaction			< 120	°C	

**Preparation / Hazırlık**

The product can be injected at the appropriate pressure with a two-component injection machine. When the components come together, it reacts quickly and hardens.

**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. The product should continue to be injected until the product given to the cracks comes back from the packers.

**Cleaning / Temizlik**

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

**Storage / Depolama**

PURINSEAL EN 405 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 405-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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