

## Definition / Tanımlama

PURINSEAL EN 113 is a one-component, hydrophobic, polyurethane injection resin used with catalyst. It is MDI-based, low viscosity, highly reactive product that activates with water to form a flexible foam. A flexible product is usually injected in a moving crack to absorb the movement of the structure.

## Application Area / Uygulama Yeri

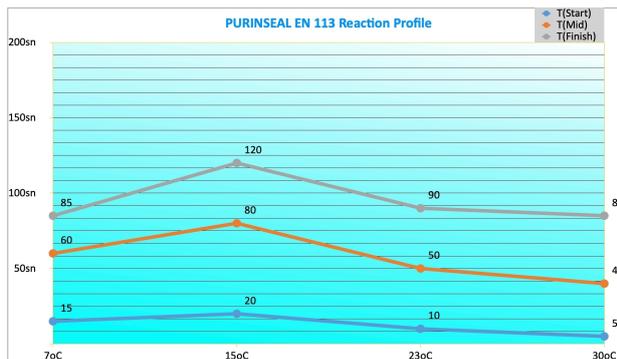
- Stops water leakages
- Watertanks
- Tunnels
- Underways
- Waterways and dams
- Car parking areas

## 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
- Very low viscosity
- Suitable for drinking water system
- Activates in aqueous and humid environments
- Solvent-free
- Provides permanently sealing
- Homogenous and close pore structure
- Short curing time
- Easy to apply
- Does not contain VOC, CFC, and halogen

## Technical Properties / Teknik Özellikler

No	Test	Resin / Reçine	Catalyst / Katalizör	Result / Sonuç	Unit / Birim	Test Code
1	Product	PURINSEAL EN 113	PURINSEAL CAT 101			
2	Appearance	Amber	Light Yellow	Amber	-	
3	Density	1,10-1,15	0,95 - 1,00	1,09 - 1,14	g/cm <sup>3</sup> (23°C)	ISO 2811
4	Viscosity	100-150	50-100	100-150	cP (23°C)	ASTM 2196
5	Mixing rate	100	5-10		w/w	
6	Start of reaction	-	-	15	second	ASTM D 7487
7	End of reaction			125	second	ASTM D 7487
8	Curing	-	-	1	hour	ASTM D 7487
9	Expansion			14	times	EN 14406
10	Free foam density			76	kg/m <sup>3</sup>	EN 14406
11	Yield			13	liter/kg	EN 14406



Temp. (°C)	Catalyst (%)	Start (sec)	Mid (sec)	End (sec)
7	10	15	60	85
15	5	20	80	120
23	5	10	50	90
30	5	5	40	85

**Preparation / Hazırlık**

The cracks must be free from loose particles, dust, oil, grease or any other contamination. Using a drill or punch, holes with a diameter of 25-32mm are drilled, under the angle of 45degrees. The dust inside the drilled holes should be cleaned, and then packers should be placed in the drilled holes. Prepare the injection material according to the TDS and pour it into the injection hopper connected to the pump. Care should be taken to use the catalyst ratio as a minimum of 5% and a maximum of 10%. Incorrect use of catalyst ratio can damage the foam form.

**Application / Uygulama**

The mixture prepared in the recommendation proportions is put into the of the single-component injection machine. The injection machine should be cleaned. The product is injected into drilled holes of packers in sequence. It continues to be given until the product starts to come back from the holes. The product is given to the third hole and when the product starts to come back, it should be returned to the first hole and re-fed. We recommend a two-component non-foaming flexible injection after water cut-off in all applications for permanently sealing. PURINSEAL EN 113 cuts water leakages, permanently sealing can be provided by PURINSEAL EN 401.

**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 113 is shipped as set 10 kg, 20 kg and 25 kg.

**Storage / Depolama**

PURINSEAL EN 113 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 113 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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