

Definition / Tanımlama

PURINSEAL EN 101 is a one-component, hydrophobic, polyurethane injection resin used with a catalyst. It is suitable for use in hot climates. When the systems comes into contact with water, it reacts to form a semi-flexible foam and has a closed-cell foam 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
- Stops water leakages under high pressure and speed
- Consolidates loose rocks and provides waterproofing
- Suitable for drinking water system
- Solvent-free
- Homogenous and closed-cell 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 101	PURINSEAL CAT 101			
2	Appearance	Yellow	Light yellow	Yellow	-	
3	Viscosity	450-550	50 - 100	900-1000	cP (23°C)	ASTM 2196
4	Density	1,10-1,15	0,95 - 1,00	1,05-1,10	g/cm3 (23°C)	ISO 2811
5	Solid content	100	100	100	%	ISO 3251
6	Mixing rate	100	10		w/w	
7	Start of reaction			20-30	second	ASTM D 7487
8	End of reaction			150-200	second	ASTM D 7487
9	Curing			1	hour	ASTM D 7487
10	Expansion			20	times	EN 14406

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 clean. The product is injected into drilled holes of packers in sequence. It continues to be pumped until the product starts to come back from the packers. The product is pumped to the third packer and when the product starts to come back, return to the first packer and re-fed. The reason for repeating this process is that the amount of product to be given is not known since the amount of water in the crack is not known. It is recommended to use a two-component non-foaming flexible injection after water cut-off in all applications for permanently sealing. PURINSEAL EN 101 stops 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 101 is shipped as set 10 kg, 20 kg and 25 kg.

Storage / Depolama

PURINSEAL EN 101 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 101 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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