

Definition / Tanımlama

PURINSEAL EN 114 is a one-component, hydrophobic, fast and highly reactive polyurethane injection resin used with catalyst. When the system comes into contact with little amount of water, it reacts to form a rigid foam. It is used in ground stabilization applications in cracks with little amount of water and in moist-wet soils.

Application Area / Uygulama Yeri

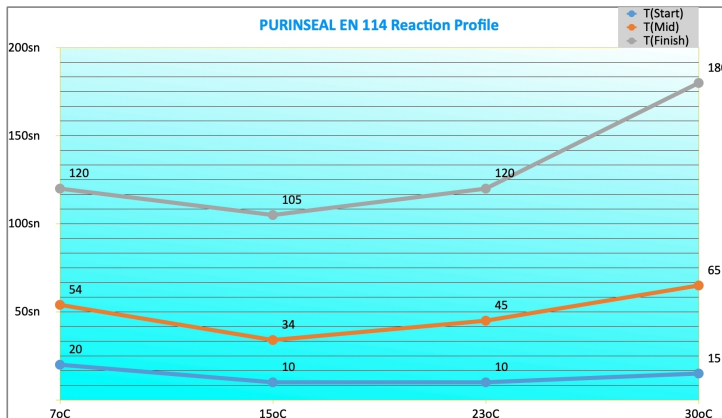
- Ground stabilisation
- Places requiring structural repair
- Tunnels
- Underground passages

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
- Activates in aqueous and humid environments
- Low viscosity
- Foam formation up to 38 times
- Does not contain volatile components
- Applied with single-component injection machine

Technical Properties / Teknik Özellikler

No	Test	Resin / Reçine	Catalyst / Katalizör	Result / Sonuç	Unit / Birim	Test Code
1	Product	PURINSEAL EN 114	PURINSEAL CAT 101			
2	Appearance	Amber	Light Yellow	Amber	-	
3	Density	1,22-1,25	0,95 - 1,00	1,22-1,25	g/cm3 (23°C)	ISO 2811
4	Viscosity	100-150	50 - 100	105-110	cP (23°C)	ASTM 2196
5	Mixing rate	100	0,5-2,0	-	w/w	
6	Start of reaction	-	-	20	second	ASTM D 7487
7	End of reaction	-	-	180	second	ASTM D 7487
8	Curing	-	-	1	hour	ASTM D 7487
9	Expansion	-	-	38	times	EN 14406
10	Free foam density	-	-	30	kg/m3	EN 14406
11	Yield	-	-	33	liter/kg	EN 14406



Temp. (°C)	Catalyst (%)	Start (sec)	Mid (sec)	End (sec)
7	2	20	54	120
15	2	10	34	105
23	1	10	45	120
30	0,5	15	65	180

Preparation / Hazırlık

Holes are drilled on the ground for the voids where the product will be injected and the application area is prepared. According to the mixing ratio given in the technical data table, PURINSEAL EN 114-B component should be mixed into PURINSEAL EN 114-A component at a rate of %0.5-2. Care should be taken to use the accelerator rate at the recommended ratio. Incorrect use of the accelerator may damage the foam form.

Application / Uygulama

The mixture prepared in the recommended proportions is put into a single-component injection machine. The product is injected into drilled holes of the ground to be stabilized. Care should be taken that the machine is clean.

Cleaning / Temizlik

After the application, drilled holes should be covered and the injection machine should be cleaned with a suitable solvent.

Packing / Paketleme

PURINSEAL EN 114 is shipped as set 10 kg, 20 kg and 25 kg.

Storage / Depolama

PURINSEAL EN 114 is stored in its packaging at a temperature of 5-30oC 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 114 contains isocyanates. 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 it 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.

**PURIN®Aqua****PURIN®ATE****PURIN®COAT PURIN®ADHE PURIN®SEAL PURIN®ELAS**