

**Definition / Tanımlama**

PURINAQUA DC 101 is a water-based anionic polyurethane dispersion. Since it is an aliphatic resin, it does not yellow with UV light. Thanks to its antidust feature, it provides protection against dust and dirt in coatings and increases abrasion resistance.

**Application Area / Uygulama Yeri**

PURINAQUA DC 101 With its excellent hydrolysis resistance, strong acid-base resistance and high mechanical resistance, it is used for coating and adhesive purposes by adjusting the viscosity value that requires application in many areas such as textile, wood, metal, sanding, construction and packaging.

**Advantages / Avantajlar**

- UV non-yellowing with aliphatic structure
- Provides high protection in coatings with its antidust feature
- Adjustable to the desired viscosity
- Environmentally friendly product with water-based structure
- High performance contribution
- Can be mixed with water-based systems such as acrylic etc.
- Clean, odor-free working environment
- Long application time
- Short drying time
- Long shelf life and stock period
- Application equipment and areas can be cleaned with water
- Non-hazardous, non-flammable

**Technical Properties / Teknik Özellikler**

No	Test / Analiz	Result / Sonuç	Unit / Birim	Test Code
	Appearance	White - Blue	-	
	Viscosity	1500 - 2000	cP (23°C)	ASTM 2196
	Density	1,00 - 1,05	g/cm <sup>3</sup> (23°C)	ISO 2811
	Solid content	30-32	%	ISO 3251
	Elongation at break	300-400	%	ASTM D 412
	Modulus of elongation	97,50	N/mm <sup>2</sup>	ASTM D 412
	Maximum tension	19,50	N/mm <sup>2</sup>	ASTM D 412
	Hardness	40	Shore D	ASTM D 2240

**Preparation / Hazırlık**

If the product is to be modified, it is formulated with the necessary additives and auxiliary resins. The performance of the formulated product must be tested beforehand. Because the formulated product will not be the same as the performance of PUD resin.

In addition, the usage period of the formulated products should be determined and all of them should be used within this period. When formulating, water-based crosslinkers can be used to increase the properties of the system if necessary.

**Application / Uygulama**

The product is applied by roller, spray, roller or brush depending on the application area. The product used as glue or coating should then be taken to the drying process.

The drying process can be natural drying or oven or hot air drying. In the drying process with heat, since suddenly high heat will cause the product to swell, it should first be pre-heated at 70-80oC and then increased to 105-120oC.

**Cleaning / Temizlik**

Since the system is water-based, all equipment and surfaces that the product comes into contact with can be cleaned with water. In addition, solvent cleaning can be performed on dried surfaces that cannot be cleaned with water.

**Packing / Paketleme**

The product is shipped in 1.000kg in IBC tanks.

**Storage / Depolama**

Its service life is 12 months from the date of production in its unopened original packaging, in a dry environment, protected from direct sunlight and frost.

**Safety and Health / Güvenlik ve Sağlık**

Avoid contact with skin and eyes. In case of contact, rinse with plenty of water. In case of irritation, consult a doctor immediately.

**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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