



## Duroseal Swelling Gaskets Universal

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**Duroseal Swelling Gasket Universal** is a consequent further development of the known Duroseal Swelling Gasket. By using new raw materials and production methods we optimized the properties of the product.

**Duroseal Swelling Gasket Universal** standard colour is red.

The new **Duroseal Swelling Gasket Universal** has an excellent swelling characteristic in uncontaminated ground-water, saltwater and chemically tainted water. It's resistance and longterm stability in those mediums guarantees a watertight joint in every area application.

The customer friendly usage of the new product has been improved extensively. **Duroseal Swelling Gasket Universal** is designed for structures with joints, and constructions having to withstand hydrostatic pressure from one or both sides.

**Duroseal Swelling Gasket Universal** is a simple and secure sealant for cold joints and construction joints.

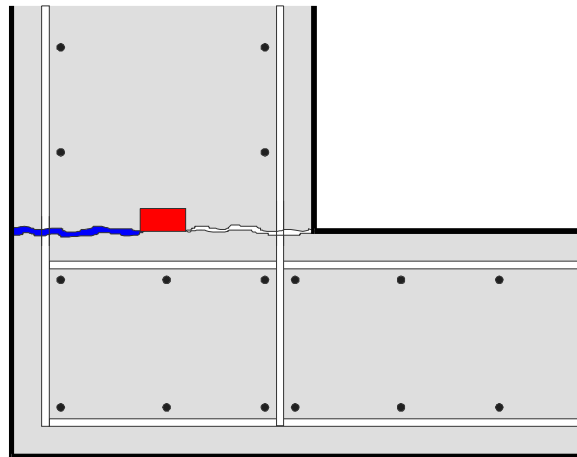
A jointwidth up to 5 mm can be sealed with Duroseal Swelling Gasket Universal against water pressure up to 5 bar. The STUVA test of technical applicability can be obtained if requested.



**Because of its active behaviour with water the swelling gasket is an effective joint sealant.**

Swelling gaskets are simple to apply and have a high sealing effect due to their swelling capability.

Swelling Gaskets do not require additional work in the construction and therefore no increased salaries and material expenses.



**For a crack width from 0 - 5 mm and a water pressure up to 50 m (5 bar, 70 psi).**

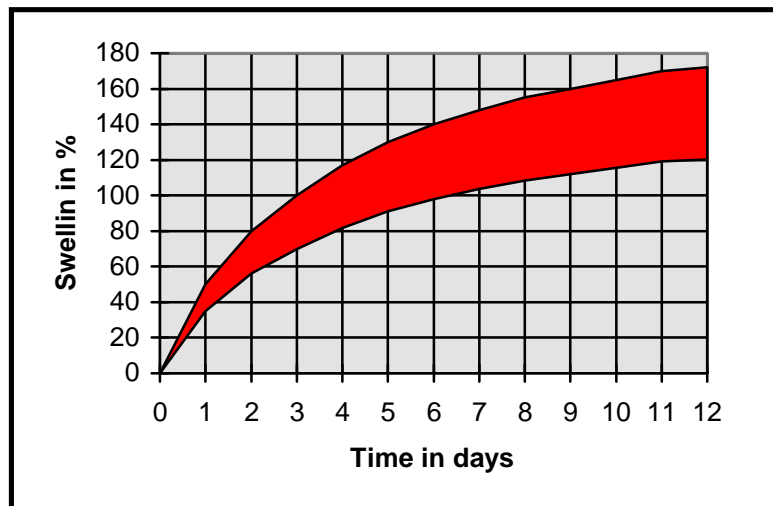
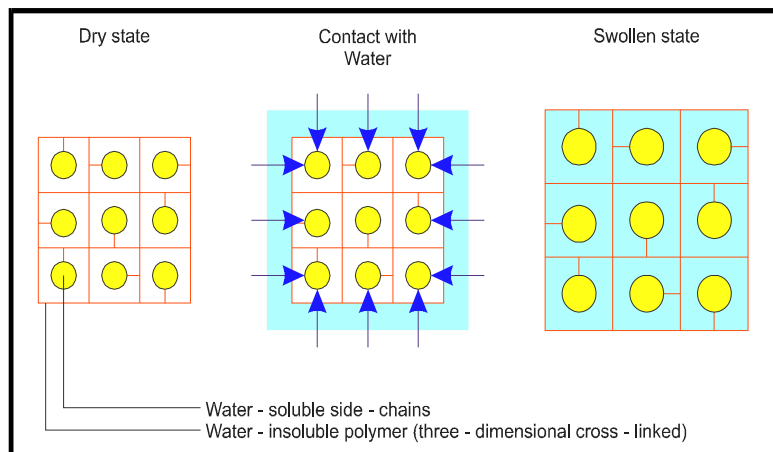
Composition and function:

Duroseal Polymers are flexible and chemically high resistant, acrylate polymers, with the unique ability to absorb water into their molecular structure under volume expansion.

The swelling process of the Duroseal products is reversible.

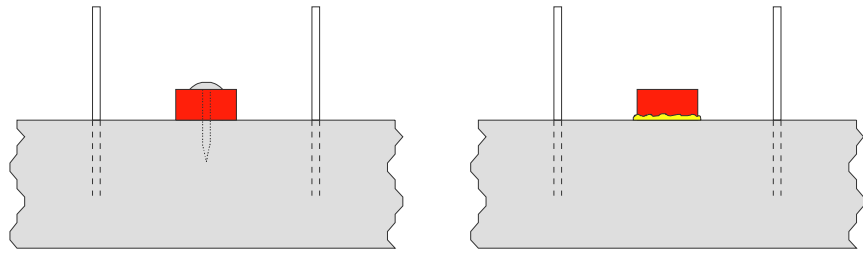
In contact with water Duroseal Swelling Gaskets increase their volume without changing the homogenous structure of the polymer matrix.

As the swelling pressure rises, the Duroseal Gaskets form an exact seal with the surrounding surfaces and prevent water intrusion.



## Installation:

Secure with nails or  
DUROSEAL  
Adhesive Glue



## Forms of Delivery:

Special profiles can be  
made by request

### Standard sizes:

Type 2520	25 x 20 mm / Carton with	30 m = 6 rolls with	5 m
Type 2010	20 x 10 mm / Carton with	60 m = 6 rolls with	10 m
Type 2005	20 x 5 mm / Carton with	120 m = 6 rolls with	20 m

## Adhesive Glue:

We recommend our adhesive glue for installation of **Duroseal Swelling Gasket Universal**.

It's superior adhesive strength allows the application on dry as well as wet surfaces e.g. concrete, metals, and different plastics.

The glue is to be applied with the commercially available corking guns. It will be delivered in 310 ml cartridges and is ready to use.

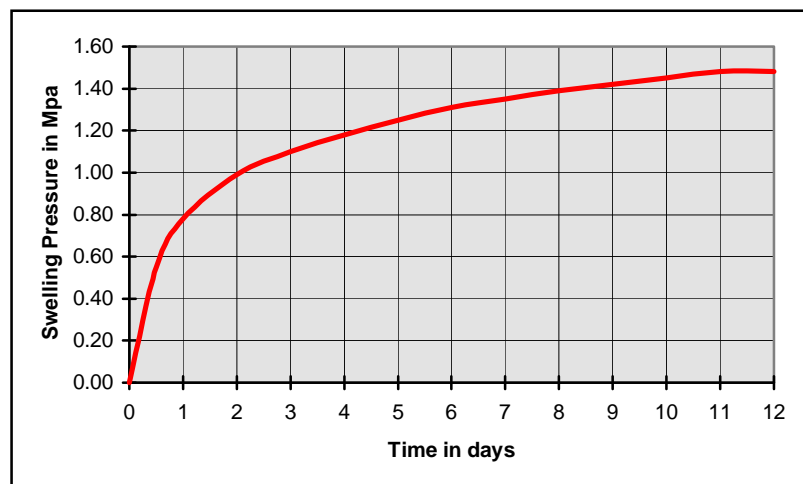
## Forms of Delivery:

Carton with 12 cartridges containing 310 ml.

## Test Certificates:

STUVA Köln, Magistrat der Stadt Wien,  
Hygiene-Institut Gelsenkirchen, TÜV Mannheim.

## Swelling Pressure



## Chemical Resistance:

The test piece was kept in the test liquid for a period of 42 days., visual evaluation.

Test liquid	Evaluation	Swelling
unleaded gasolin	resistant	approx. 4%
diesel fuel	resistant	approx. 1%
toluene	resistant	approx. 17%
p-xylene	resistant	approx. 16%
methanol 50%	not resistant	approx. 260%
2-propanol 50%	not resistant	approx. 340 %
ethylendichloride	resistant	approx. 100%
N-methylpyrrolidone	not resistant	approx. 350%
ethyl acetate	resistant	approx. 30%
methylisobutylketone	resistant	approx. 10%
acetic acid 10 %	resistant	approx. 200%
formaldehyde 36%	not resistant	approx. 320%
sulphuric acid 2 %	resistant	approx. 160%
sulphuric acid 20 %	resistant	approx. 150%
sodium hydroxide 2%	resistant	approx. 200%
sodium hydroxide 20 %	resistant	approx. 8%
common salt 20 %	resistant	approx. 10%
calcium hydroxide pH 11 - 12	resistant	approx. 180%

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