

UNDERWATER MAGIC™

Underwater Magic™ is a lasting elastomeric sealant with an extremely high adhesion

Technical data:

Density at 23 °C: 1,57 ± 0,03 g/cm³

Shore-A-hardness (DIN 53505)

after 3 weeks of storage

at 23 °C / 50 % rel. air humidity: 58 ± 2

Consistency (DIN EN 27390):

non sagging up to 40 mm large joints

Elongation at break (DIN 53504):

400 %

Modulus at 100 % elongation

and 23 °C (DIN 53504 S2):

1,5 N/mm²

Storage 7 days at 23 °C /

50 % rel. air humidity

Tear strength (DIN 53504 S2):

2,6 N/mm²

Storage 7 days at 23 °C /

50 % rel. air humidity

Skinning time at 23 °C /

50 % rel. air humidity:

approx. 7 minutes

Curing through at 23 °C /

50 % rel. air humidity:

after 24 h: 2,7 mm

after 48 h: 4 mm

Resistance to temperature:

-40 °C to +90 °C

Working temperature:

lower +5 °C, upper +40 °C

Chemical resistance:

good: to water, aliphatic solvents, oils, greases, diluted inorganic acids and alkali

limited: to esters, ketones and aromatics

not resistant: to concentrated acids and chlorinated hydrocarbons

perfect weather-ability

Colours:

grey, blue, white, sand other colours on request

Size:

cartridges of 290 ml, in boxes of 12 pieces

Shelf life:

12 months from production date, in original box

Storage conditions:

cool and dry

Underwater Magic is compatible with paints. Pre-tests are recommended.

Paints based on alkyd resins may have extended drying times.

The varnish should be applied to the sealant within 4 hours. You will get the best results working "wet on wet".

After cleaning with acetone, the joints can be repainted at any time.

The data published in this leaflet correspond to reliable laboratory test results. However, **it is left to the consumer himself to check the product's suitability for the application in question.**

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Chemical Resistance

		2 Days	7 Days	14 Days	3 Month
Solvents					
Xylene		(+)	(-)	-	- destroyed
Dichloromethane		(+)	(+)	(+)	(+)
White Spirit		+	(+)	-	- destroyed
Ethyl alcohol		(-) after 8 hours	-	-	- dissolves
Isopropanol		(+)	(-)	(-)	(-) same like after 14 days
Ethyl acetate		(-) after 8 hours	-	- (yellow coloring)	dissolves
Acetone		(+)	(-)	-	- destroyed
Methyl ethyl ketone		(+)	(-)	-	- destroyed
Oil					
Hydraulic oil		+	+	+	+
Gasoline		(+)	(-)	(-)	-(destroyed)
Acid					
Formic acid	10%	+	(+)	(+)	(-) Blistering
Hydrochloric acid	10%	+	+	+	(-) Blistering
Sulfuric acid	25%	+	+	+	(+)
Phosphoric acid	5%	+	+	+	(+) hardens
Alkalis					
Ammonia	25%	+	+	+	(+)
Calcium hydroxide	saturated	+	+	+	(+) Blistering
Caustic soda	15%	+	+	+	(-)
Potassium	15%	+	+	(+)	(-)
Salt solutions					
Sodium Chloride		+	+	+	(+)
Ammonium sulfate		+	+	+	(+)

Upstream test 50 X 50 X 2 mm / 3 days and cured, then inserted into the medium, **optical review!**
+ = Resistant / (+) = moderately resistant, low swell / (-) = significant swelling / - = not resistant

It is in this table are rough guidelines. The decisive factor, together with the **concentration** and the **exposure** time and **temperature**