

# MasterSeal 912

**Hydro-expansive, polyurethane mastic for the sealing of joints against seeping water.**

## DEFINITION OF THE MATERIAL

MasterSeal 912 is a hydro-expansive, single-component polyurethane mastic for sealing joints against water seepage.



## MAIN FIELDS OF APPLICATION

Sealing against water seepage in:

- construction joints;
- joints between prefabricated elements;
- holes for pipes;
- H-section steel pillars;
- underground structures.

It can also be used as an adhesive for joints made with hydro-expansive rubber MasterSeal 910, especially on rough or wet surfaces.



## CHARACTERISTICS

- Single-component, easy to apply: it can be applied with a common sealant gun;
- it does not require primers on substrates made of concrete, PVC, HDPE, steel, etc.;
- not solvent-based;

- it can be applied to both dry and damp surfaces;
- it is also suitable for underwater applications;
- permanent hydro-expansive and flexible properties;
- it follows the movements of joints and structures;
- chemical-resistant, especially in the presence of oil, grease and petroleum by-products.

## TYPICAL PERFORMANCE

Requirements and test methods	Performance
Expansion in distilled water after 15 days at 20°C	approx. 320 % of the initial volume
Expansion in salt water (14% salt solution) after approximately 28 days)	approx. 80-90 % of the initial volume
Resistance to positive hydraulic pressure	> 10 bar
Elongation at break, ISO 527-2	approx. 800%
Tensile strength, ISO 527-2	2.45 MPa

## CHEMICAL RESISTANCES

Aggressive	Stability	Expansion
Lead-free fuel	Resistant with fading	approx. 45%
Diesel oil	Resistant with fading	approx. 2%
Toluene	Resistant	approx. 140%
Xylene	Resistant	approx. 85%
Methanol 50%	Resistant	approx. 400%
Isopropanol 50%	Resistant	approx. 500%
Ethylacetate	Resistant	approx. 195%
Methyl isobutyl ketone	Resistant	approx. 85%
Acetic acid 10%	Limited resistance	approx. 150%
Sulphuric acid 10%	Resistant	approx. 190%
Sulphuric acid 20%	Resistant	approx. 210%
Sulphuric acid 26%	Resistant	approx. 25%

## PACKAGES

310-ml cartridges and 600-ml rolls.

## STORAGE

Store the material in the original containers, in a dry and covered place at a temperature between 15 and 25°C. Do not expose to direct sunlight.

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## APPLICATION SHEET

### TEMPERATURE

It can be applied when the ambient temperature is between +5°C and +40°C.

### PREPARING THE SUBSTRATE

Correct preparation of the substrate is essential to successful application.

The application surface must be structurally sound, without any prominent irregularities, clean and clear of any dust, oils, grease, other contaminating substances. Repair any imperfections with a suitable product from the MasterEmaco line, and eliminate any trace of liquid water from the surface.

### APPLICATION

Break the seal on the cartridge, attach the nozzle and cut it to the required diameter. MasterSeal 912 can be applied with a normal sealant gun and must be pressed into the substrate.

Apply a consistent and continuous amount of product onto the substrate inside the element being sealed.

Technical data	
Density, DIN 53504	approx. 1.45 kg/litre
Resistance to vertical sag, Boeing test	< 5 mm
To the touch	approx. 10 hours
Hardening	approx. 16 hours
Flash point, Pensky-Martens Method	> 130 °C
Resistance to temperature	-30°C – 80°C

### HOLES FOR PIPES

Remove the concrete from around the pipe by a depth of at least 3 cm. Apply the product around the hole with a minimum thickness of 10 mm.

Fill the remainder with MasterSeal 590.



### CLEANING

Non-hardened product can be easily removed with solvent. Hardened product can only be removed mechanically.

### WARNING

With underwater use or on very wet substrates, cast the concrete within a maximum of 6 hours to prevent premature expansion. Make sure the product is completely incorporated into the concrete casting. Ensure concrete coverage of at least 8 cm.

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This edition supersedes all previous ones.

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