



DATASHEET

# HYDROFOM<sup>®</sup> 100

Two Component Polyurethane Injection Grout for Water Tight Sealing

## DO YOU KNOW?

*Concrete is an inexpensive, readily available, versatile, strong material available for more than 100 years. But, it is also a hard sponge; hydrophilic and soaks up water. A waterproofing system is needed to stop water from getting in, and from damaging rebar in the concrete.*

## PRODUCT DESCRIPTION:

HYDROFOM<sup>®</sup> -100 is an advanced polyurethane based two component injection grout, used for stopping leaking water from concrete structures. Being two component, the product can be used in a crack/voids area without water. Once mixed, the product will expand and fill up all voids and cracks inside the structure.

## USES:

- HYDROFOM<sup>®</sup> -100 is used for permanent watertight sealing within dry, damp or leaking concrete, stone or brickwork.
- It can be used in water-leaking cracks under hydrostatic pressure along with HYDROFOM<sup>®</sup>-200.

HYDROFOM<sup>®</sup>-100 has application in following structures:

- Protection for walls and slabs
- Above and below grade construction
- Water containment Structures
- Sewage and wastewater treatment plants
- Bridges, dams and highway infrastructure
- Secondary containment structures
- Underground vaults
- Tilt-up panel walls
- Precast components
- Architectural water features and fountains
- Aquatic centers, marinas and zoos
- Swimming pools
- Where waterproofing and corrosion protection is required

## TYPICAL PROPERTIES:

1. HYDROFOM<sup>®</sup>-100 is permanently elastic hence can absorb slight movements. It is non-shrink under dry conditions. Because of low viscosity, HYDROFOM<sup>®</sup>-100 can penetrate into fine cracks.



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HYDROFOM<sup>®</sup> -100 /2024/R0-2024



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2. HYDROFOM®-100 is environmentally friendly, usable in ground water protection. It has got no shrinkage in subsequent dry conditions. Due to its low viscosity it can penetrate into cracks >0.2 mm in width.

## TECHNICAL PROPERTIES

Properties	Standards	Value
<b>Color</b>	-----	<b>Part A:</b> Clear Liquid <b>Part B:</b> Brown liquid
<b>Density (g/ml)</b>	(g/ml)	<b>Part A-</b> ~1.02 ± 0.05 kg/I <b>Part B-</b> ~ 1.17± 0.05 kg/I (all Density value at +20°C)
<b>Mixing Ratio</b>	-----	Ratio of 1 : 1 Part by Value
<b>Mix Viscosity at +25°C</b>	Mpas.	190 ± 50 Mpas.
<b>Shore A Hardness</b>	-----	~65 (7 Days)
<b>Modulus of elasticity in flexure</b>	-----	~ 2.0 Mpa
<b>Elongation at Break</b>	-----	~25 %
<b>Application Temperature</b>	°C	+5°C to +35°C
<b>Service Temperature</b>	°C	+5°C to +35°C
<b>Shelf Life</b>	-----	12 months
<b>Packing</b>	Kg	10 Kg

## APPLICATION INSTRUCTION

### MIXING

1. Empty parts A and B into a mixing vessel and mix slowly and thoroughly for at least 3 min (max. 250 rpm) until homogeneous, observing the safety precaution.
2. The containers are supplied according to the required mixing ratio of 1:1 part by volume. Partial quantities can be measured out into separate vessels. After mixing, pour the material into the pump's feed container, stir briefly and use within the pot life.

### CLEANING OF TOOL

1. The tools have to be cleaned properly immediately after use. They are to be cleaned thoroughly with the cleaning agent after work has finished or in cases of longer interruptions the injection equipment is to be cleaned.
2. Material must not dry out in the equipment and plug up vital machine components. The cleaning respective solvent agent has to have a flash point exceeding +21°C.



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## SUBSTRATE PREPARATION

Surfaces of cavities and cracks need to be clean, free of loose particles, dust, oil and any other bond-breaking substances. Any dirt must be blown out by compressed air.

## STORAGE:

Dry storage at temperatures between +5 °C and +35 °C. Protect from direct sunlight and humidity.

## PACKING

HYDROFOM<sup>®</sup> -100 is supplied in packs of 10 kg  
(BASE: 5 kg and HARDENER: 5 kg)

## NOTES:

Contact the Technical Services Department for further details.

## WARRANTY

Multichem warrants HYDROFOM<sup>®</sup>-100 to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of HYDROFOM<sup>®</sup>-100.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of HYDROFOM<sup>®</sup> -100.

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