

**AFEC E.R.M.A Ltd.**

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**אפק א.ר.מ.ע בע"מ**

ת.ד. 13379 אזוה"ת הישן, נתניה 4237927  
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**Product name:** WPI- 401

**Supplier:** AFEC e.r.m.a Ltd.

**Manufacturer:** AFEC e.r.m.a Ltd.

**Description:** **WPI 401** is a new generation Concrete Waterproofing Enhancer and Mid-Range Water Reducer  
**WPI 401** is especially recommended for concrete requiring waterproofing properties.  
**WPI 401** enables the production of concrete with low W/C ratios thus enhancing the density of the concrete and lowering the pours in the hardened concrete.

**Applications:**

- All types of cement
- Heavy precast
- High performance concrete, very high-performance concrete
- Pre-stressed concrete.
- Ready-mix concrete
- Concrete of humid, plastic or fluid consistency
- Self-levelling concrete

**Direction of use:** Dosage: between 0.5 and 1.0 kg per 100 kg of cement.  
A 0.8 % dosage of the product to the weight of cement is commonly used.  
**AFEC WPI 401** can be added to the water before mixing the concrete.  
However, it can be added to the concrete after mixing.

**Precautions and limitations:** Store away from frost.  
Use **AFEC WPI 401** at a temperature superior to 5°C.  
Should the product freeze, it keeps its properties can be recovered after thawing and tilting thoroughly.

**Handling and storing:** Shelf life: 9 months.

**Safety:** **AFEC WPI 401** is classified as "harmless". It is recommended to wear normal protective equipment.

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<b>Characteristic:</b>	Nature: Liquid
	Color: Brown
	Density: $1.1 \pm 0.020$
	PH: $6.5 \pm 2.0$
	Cl <sup>-</sup> ion content: $\leq 0.10$ %
Dry extract (halogen): $26 \% \pm 2$	
<b>Packaging:</b>	Bulk
	IBC: 1000 Liters
<b>Chemical stability:</b>	$6^{\circ}\text{C}-55^{\circ}\text{C}$
<b>Limitations:</b>	AFEC WPI <b>401</b> <u>cannot</u> be used with polycarboxylate based admixtures