



## CONCRETE & MORTAR ADMIXTURE

### Seal-All ®

Technical Data Sheet

Edition 01/2013

Number 111

**Seal-All ®**

Super Waterproof, Bonding Agent & Plasticizer Admixture

Complies European Norm: EN 934-2

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#### Description:

Super Waterproof, Bonding Agent & Plasticizer Admixture

High-Quality, strongly concentrates, highly stable (tetra polymer based) Universal emulsion for any (cement-based) hydraulically hardening materials such as concrete, mortar, plaster, adhesive...& paint,

**Seal-All ®** is a unique liquid admixture which reduce the penetration of the water into or trough the concrete or the mortar. When mixed with cement it reacts with the constituents to block the pores and capillaries while the concrete and mortar hardens and dries. While the penetration of water is minimise or stopped **Seal-All ®** still allows the substrate to breathe.

Even if your mixing proportions are wrong it will not affect your mortar concrete which will not burn nor crumble due to the high stability of the product.

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#### Uses:

**Seal-All ®** can be used in the following applications:

Bonding in wet conditions

Waterproofing for concrete and mortar

i.e. Tunnels, basements, canals, water tanks, reservoirs, swimming pools, etc...

For bonding coats between old and new concrete

i.e. composite screeds or plasters

Repairing and patching mortar

Thin-bed adhesives, watertight self-levelling

Preparation of wear-resistant, weatherproof screeds

High resistant industrial flooring

Waterproof & crack-free plasters and renders

Improvement of whitewash paints

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#### Advantages:

**Seal-All ®** is an economical aid for improving the water tightness of concrete and mortar.

## CONCRETE & MORTAR ADMIXTURE

### Seal-All®

With the only **Seal-All®** your mortars/concrete/plasters have the following advantages: Better Bonding, Waterproofing, Flexibility, Resistance, Exceptional workability, Less shrinkage, Crack-free, Dust-free, etc...

**Seal-All®** is not a vapour barrier; the substrate is still able to breathe.

**Seal-All®** is part of an international range of proven admixtures.

The addition of **Seal-All®** does not constitute any risk of corrosion to structural or reinforcement steel.

**Seal-All®** reveals excellent compatibility, even in conjunction with highly alkaline construction materials.

**Seal-All®** is a high-percentage, non-ionic dispersion and can thus be applied with a high degree of stability.

**Seal-All®** is suitable for use in tropical and hot climatic conditions.

Concrete mixed with **Seal-All®** enjoys NO LOSS of compressive strength.

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#### Technical properties:

Form	Liquid
Colour	White
Viscosity	80 to 120 m Pa.s
Density	1.1kg/lt
Solid	52 ± 1%
pH Value	7 to 9
Chloride content	No
TEA content	No
Air Entrainment	Does not affect air content
Suitability	Can be used in most types of concrete and mortar containing Ordinary Portland cement.

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#### Method Statements:

##### Instructions for use:

Dosage Concrete- Standard dosage of 7 litres/m<sup>3</sup> is usually recommended with a minimum cement content of 300 kg/m<sup>3</sup> mortar- add to gauging water at a rate of 1 volume **Seal-All®** to 8 volumes water (for wet sand increase dosage ratio 1:6)

##### Preliminary works

Remove loose particles from adherent surfaces, chisel off damaged parts.

Carefully remove any residues of form oil. Treatment of substrate by a high pressure cleaner is particularly recommended.



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### Seal-All®

#### Preparation of mortar mixture

Mix **Seal-All** thoroughly with water. Add this mixing water to the dry mix of binder and aggregate until the desired consistency is attained.

#### Cleaning

Clean all containers and equipment with water immediately after use.

Once **Seal-All** has dried it can only be removed mechanically.

Drums containing **Seal-All** must be closed tightly after use.

#### General Advice

The product does not require mandatory identification according to EC standards / Hazardous Substance Ordinance.

#### Recommendations

For more information and more fields of application please refer to our detailed brochure of **Seal-All**®.

General Consumption and processing instructions at a glance for use on site

**Seal-All**® must be mixed with water before the mortar is prepared!

The below values specified in respect of mixing and consumption are empirical and not binding.

For the mixing and application methods, please refer to our Usage Table (page 5 of 5).

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#### Packing:

Available in 5L, 10L, 20 L, 200 L, 1000 L, Bulk.

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#### Storage:

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air conditioned environment.

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#### Shelf Life:

Up to 18 months when stored as per recommendations.

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#### Application possibilities with SEAL-ALL®-In-One...

Crack-free, Waterproof Plastering/Rendering

Thin waterproof & elastic SKIN coatings

On walls, gypsum board, wood

Polystyrene

Breeze blocks, concrete blocks

Heraklith

Sealing/Gluing/Grouting of tiles, marble, natural stone...

Waterproof and Flexible adhesive/grout

Self-Levelling



## CONCRETE & MORTAR ADMIXTURE

### Seal-All ®

Waterproof Tanking System, Reservoirs

Bathroom, Kitchen  
Basement, Cellar  
Terrace, Balcony...

Repairing of concrete and plasters

Industrial Flooring: Wear resistant, crack-free, dust-free...

Warehouse, high traffic  
Cold stores, Food, meat, vegetable and fruit  
processing plants  
Workshop...

Thin floor covering, resistant, watertight  
Grouting/Joining

Pipe connections,  
Door and windows frames  
Bricks, breeze blocks...

Decorative Concrete  
Bonding/Grouting of Concrete  
Screeding  
And many more...

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### Health & Safety

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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## CONCRETE & MORTAR ADMIXTURE

### Seal-All®

#### Generally

- Shake before use
- Ones always work on a solid clean substrate . Wet or apply a primer (column 3) . Do not let dry.
- Bonding layer: mix before hand the cement & sand, (ratio in column 5). Then mix the mixing solution **Seal-All**®/Water ratio column 4) to obtain a slurry.
- Mortar: mix the Sand & cement (ratio column 5) and add the mixing solution (**Seal-All**®/Water ratio column 4) till you obtain a workable paste.

Applications	Details	Primer:	Mixing Solution	Mixing ratio Cement/Sand	Usage L/m <sup>2</sup> of Seal-All®
		Seal-All® / Water			
Waterproofing work	1. Bonding layer 2. Cement coating 1 <sup>st</sup> 2 <sup>nd</sup> 3. Screed 2cm	1 / 3	1 / 1 1 / 2 1 / 3 1 / 2	1 / 2 1 / 2 1 / 3 1 / 2.5	0.8 Per 2cm thickness.
Waterproof bonding layer		1 / 3	1 / 3	1 / 0	70 g/m <sup>2</sup>
Bonding layer	Bridge between new & old concrete or asphalt.	1 / 3 1 / 1	1 / 1 1 / 1	1 / 2 1 / 2	0.25 0.35
Repair mortar for concrete Exposed concrete	1. Bonding bridge 2. Up to 10mm 3. More than 10mm	1 / 3	1 / 2 1 / 1 1 / 3	1 / 0 1 / 3 1 / 4	1 L / 10 L DM 0,3 L / 10 L DM
Reinforcement damage repair mortar	1. Bonding bridges X2 2. Repair Mortar		1 / 1 1 / 3	1 / 1 1 / 4	1 L / 10 L DM
Repair of cracks	Fine mortar	wet	1 / 1	cement	100 g/m <sup>2</sup>
Thin or thick bed adhesives for insulating panels, natural stones, cement slabs, tiles...	1. Bonding layer 2. Mortar	1 / 3 On asphalt 1 / 1	1 / 1 1 / 2 – 1 / 4	1 / 2 1 / 3 – 1 / 4	0.2 0.6 L / 10 L DM
Lime Milk				1.2 L / 10 L lime Milk	
Concrete Flooring (screed) suitable for floor heating	1. Bonding Layer 2. screed 5 – 10 mm 10 – 15 mm 15 – 30 mm 30 – 50 mm 3. Curing Compound	1 / 3	1 / 1 – 1 / 2 1 / 2 1 / 3 1 / 4 1 / 6	1 / 2 1 / 3 1 / 3 1 / 4 1 / 4	0.25 0.4 – 0.75 0.4 – 0.6 0.5 – 1 0.75 – 1.25 0.1
Dust prevention coat	With a brush	1/6 – 1/8			0.2 – 0.4
Saturating gas (aerated) concrete		Wet	1 / 6		60 – 80 g/m <sup>2</sup>
Plaster	1. Bonding layer 2. cement render 3. lime/cement render	1 / 5	1 / 5 1 / 3 1 / 10	(lime, cement, gypsum) 1 / 4	0.3 0.25 / 10 L DM 0.25 / 10 L DM
Jointing mortar			1 / 3		0.5 10 L DM

#### DM: Dry Mortar

Date and particulars given in this leaflet are based on our current technical Knowledge and experience. They do not relive users from making trials and conducting their own tests owing to the many possible influential effects in assurance can be derived from the mentioned data and particulars with regard to certain properties or suitability for any specific application. Any patent rights as well as existing laws and provisions must be observed in all cases by the users, acting on their own responsibility and their own risk