



## Building Admixtures & Reinforcement Materials

# ISOMIX RESIN ACR 300

### Technical Data Sheet

Reviewed: 06.06.2015



#### DESCRIPTION

**ISOMIX RESIN ACR 300** is a new nanotechnology bonding agent and admixture. It is based on pure acrylic resins and nano – microtechnology particles. It is ideal for improving and reinforcing concrete and cement admixtures. It offers improved adhesion, flexibility and reinforcing properties while offering UV resistance compared to synthetic latex emulsions.

#### ADVANTAGES

- New micro – nano technology
- Strong adhesion to old and new concrete, steel and wood.
- Waterproofing of cement admixtures
- Crack prevention
- Reduced shrinking during curing
- High frost resistance
- Improved mechanical properties
- Improved resistance to water, oil and chemicals
- High wear, abrasion, and impact resistance
- High flexibility (at high resin concentration)
- Improved workability with corresponding reduction of water in admixtures
- Does not require antifoam
- UV resistance

#### APPLICATIONS

- Improvement of admixture properties and that of self-leveling compounds and waterproofing cementitious membranes. The increased mechanical properties of the treated admixtures make them suitable for pre-cast concrete elements.
- Development of excellent adhesion and waterproofing properties for cementitious mixtures to seal areas even with negative water pressure.
- Development of waterproofing membranes for roofs, balconies, swimming pools etc.
- Improved adhesion between old and new concrete – cementitious mixtures.
- Improved waterproofing, adhesion and flexibility for cementitious tile adhesives and grouts ( specially for swimming pools).

- Priming of porous and loose surfaces prior to application of cementitious mixtures, emulsion paints etc.

#### INSTRUCTIONS FOR USE

##### Surface preparation

1. Ensure surfaces are clean from oil and residue, dirt, dust and loose materials.
2. Pre -wet very hot or very absorptive surfaces avoiding the creation of water puddles.

##### Mixing

**ISOMIX RESIN ACR 300** is added to water in the following manner for the respective applications.

##### Flooring screeds

Cement : sand = 1:1 up to 1:4

**ISOMIX RESIN ACR 300**: water = 1:1 (liquid mix)

Drymix : liquid mix = 5:1

##### Brushable Slurries

**ISOMIX RESIN ACR 300** : water = 1:3

##### Priming layers between old and new concrete

Cement : sand = 1:1

**ISOMIX RESIN ACR 300** : water = 1:1

Dry mix : liquid mix = 2:1

Applied with a brush 20 minutes before the new concrete – cementitious mix is applied

##### Tile – marble adhesives and grouts

**ISOMIX RESIN ACR 300** : water = 1:2 up to 1:3

##### Screeds

**ISOMIX ACR 300** : water = 1:3

##### Plaster waterproofing

**ISOMIX RESIN ACR 300** : water = 1:3 up to 1:4

##### Surface priming

No dilution

#### CAUTION

Shake well before use

#### CLEANING

Clean tools immediately after use with soap and water.

#### TECHNICAL CHARACTERISTICS

**Form:** Emulsion

**Color:** Milky white

**Odour:** Slightly aromatic

**Specific gravity:** 1,01 ± 0,05 g /ml

**Viscosity:** 1800-2000 mPas (25°C)

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**PH:** 8-9

**Solubility:** In water

**Flammability:** Non flammable

#### STORAGE

Store in dry and cool storage conditions at temperatures 5°C-30°C. Protect from moisture, frost and direct sunlight.

#### SHELF LIFE

At least 12 months in unopened containers. Products should remain in their original unopened containers, bearing the manufacturers batch number.

#### PACKAGING

Plastic containers 400gr, 800gr

PACKAGING	CODE	BARCODE
1kg	05070	5204094050704
5kg	05116	5204094050711
20kg	05072	5204094050728

#### HEALTH AND SAFETY INFORMATION

The product is not classified as dangerous according to CLP Regulation (EC) n° 1272/2008.

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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