

# DUROMAX



Improving construction resin for mortars - 100% acrylic



## PROPERTIES

New generation acrylic polymer emulsion, high concentration, nanomolecular technology. It is ideal for improving cement and lime mortars and enhancing their properties.

- Increases adhesion to the substrate.
- Improves flexibility, watertightness and workability.
- Reduces curing related shrinkage and prevents hairline cracks.
- Increases strength both in mass and on the surface.
- Facilitates the construction of thin layers, enhances abrasion resistance and prevents surface dusting.
- Resistant to cement and lime alkalinity.
- Does not liquefy after the complete mortar cure.
- Increases the resistance of mortars to acids, salts, oils, petroleum
- Increases the resistance of plasters against moisture and frost that lead to their gradual deterioration.
- Reduces the water requirement of mortars.

## APPLICATIONS

### AS MASS ADMIXTURE

**In concrete repairs:** Mortar preparation with river or quarry sand or specialized ready mixed (fine or coarse grain) mortars. The mixing ratio in each case is 1lt DUROMAX per 25kg of cement.

**In building mortars:** Creates a flexible bond between the mortar grains, thus preventing crack formation from minor earthquakes and man-made vibrations due to excavating equipment operating in adjacent areas (0.5-1.5lt DUROMAX per 25kg of cement)

**In new or existing renders in need of repairs:** It increases durability and watertightness properties of both, traditional and ready mixed plasters (0.5-1.5lt DUROMAX per 25kg of cement).

**As necessary additive to scratch coat plasters:** Ensures adhesion to insulating products, e.g. expanded or extruded polystyrene, etc. (1.0lt DUROMAX per 25kg of cement).

**As necessary additive to base coat plasters:** Increases adhesion and mechanical strength (0.75lt DUROMAX per 25kg of cement).

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**Durable cement screeds:** Add 0.75-1.5lt DUROMAX per 25kg of cement to increase their mechanical strength as well as their abrasion resistance.

**Durable floors:** Enables the creation of thin cement screeds, eliminating the risk of their detachment (1.5lt DUROMAX per 25kg of cement).

**In cementitious adhesives:** Increases adhesion, durability, flexibility and watertightness (0.5lt DUROMAX per 25kg of cement).

**In grouts and tile/marble adhesives:** Enhance their watertightness and increases the adhesion and flexibility (0.75lt DUROMAX per 25kg tile/marble adhesive).

**In brushable cementitious waterproofing mortars:** Increases their flexibility and mechanical strength (0.5lt DUROMAX per 25kg of cement).

## APPLICATIONS

### AS SPRAYABLE ORBRUSHABLE PRIMER-

**For surface stabilization of floors:** On fresh concrete surfaces apply by spraying or brushing, at a dilution rate of 1:3 with water, to protect them from dehydration and to create abrasion resistant floors that do not dust.

**For surface stabilization of unsound surfaces made of plaster, concrete or lightweight screeds (filling material):**

Dilute Duromax at a ratio of 1:4 with water, and spray or brush the surfaces.

## USE

### 1. Surface preparation

For better results it is highly recommended that the application surfaces are clean, lightly soaked, free from loose materials, dust, form-work oils and paint etc.

### 2. Application

Shake well before use. Add the required amount into the mixing water of the mortar, always depending on the application.

## CLEANING

Clean all tools with water immediately after use.

## CONSUMPTION

Depending on the application. From 1:1 up to 1:8 product to water ratio.

## STORAGE

Store in places protected from sun and frost, for at least 15 months from production date.

## SAFETY DIRECTIONS

The product needs no hazard labeling based on current European and National legislation. However, it is recommended to keep away from the reach of children. If swallowed, seek immediate medical advice and show the container or label.

## NOTES

- The thinner the coatings, the more than twice the amount of DUROMAX.
- When increased flexibility of cement or lime mortars is required, the dilution ratio is determined at 1:3, DUROMAX: water
- The minimum amount of DUROMAX is 1.5 lt per 50kg of cement
- Do not allow for the product to be exposed to temperatures below + 5°C.
- If frozen, transfer to a warmer environment.

## PACKAGING

Carton box with 15 pcs of 750ml each one

Carton box with 6 pcs of 3.5lt each one

18lt container

1,000lt tank (special order)

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TECHNICAL SPECIFICATIONS	
<b>Form - Color</b>	Acrylic polymer emulsion -White, becomes transparent when dry
<b>Density</b>	1.00±0.05kg/lt
<b>Application temperature</b>	From +5°C to +35°C
<b>pH</b>	10.0±1.0
<b>Toxic</b>	No
<b>Does not contain organic solvents</b>	
<i>The adhesion strength doubles after 28 days, per EN 1015-12. The experimental measurements were performed per EN 1015-12 within DUROSTICK chemical lab and were confirmed by the CERECO audit (949/2010).</i>	

## DUROSTICK S.A.

MANUFACTURING OF ADHESIVES, PAINTS & MORTARS

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