

A3: A RELIABLE CHOICE



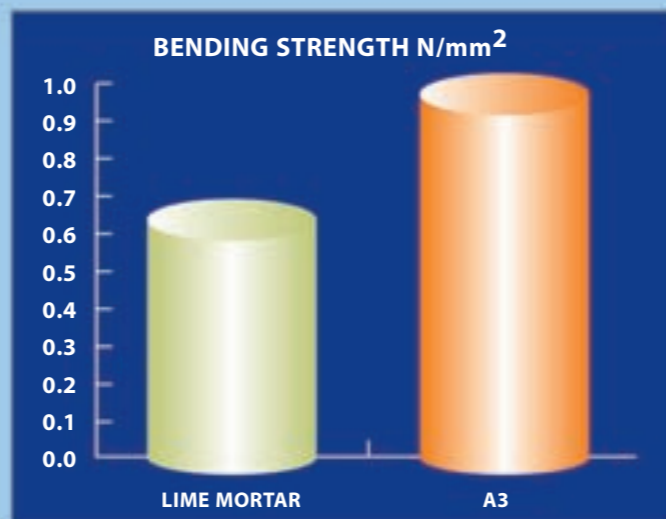
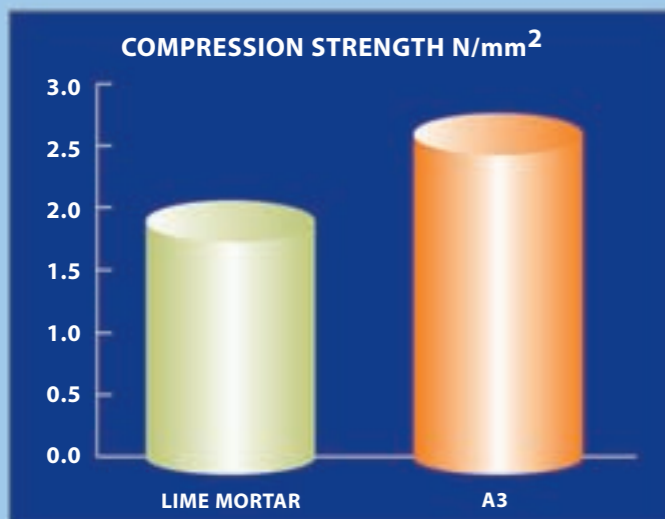
PROJECT: Full reconstruction of plastering in El Greco (Grecotel) hotel • Choice: **A3**

COMPOSITION OF 1m³ OF MORTAR

| | UNIT OF MEASUREMENT | USE OF A3 | USE OF LIME |
|--------|---------------------|-----------|-------------|
| SAND | m ³ | 1 | 1 |
| CEMENT | kg | 200 | 200 |
| A3 | kg | 16 | - |
| LIME | Lit | - | 240 |

In accordance with the laboratory tests performed - in the Hellenic Company of Refractory Ceramics (EKEPI)- it is obvious that the use of **A3** considerably increases the compression and bending strength related to lime mortar (mixed with 200kg of cement).

A3 strictly observes the required specifications.



Source: EKEPI File No.: 579/15-01-03

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mortar plasticizer

A3

replace 100% lime in cement mortars



From 1998



Industrial Area 4.500m²

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A3 the evolution of the... species

AKROLITHOS introduced in 1998 **A3**.

A new material in the field of mortar plasticizers that provided an effective solution to problems related to the use of lime.

Today, in the end of 2007

- With a 10-year experience in production
- With sales of thousands of tons
- With an autonomy of raw materials
- With state-of-the-art facilities & equipment

AKROLITHOS introduces **A3** with a new advanced composition for even better results and an even greater economy.



A3 is packaged in 35kg paper bags.

In order to obtain 1m³ of mortar containing 200kg of cement, it is necessary to use 16-25kg of **A3** (depending on the sand granulometric gradation).

Practically, a bag of **A3** is required for the preparation of 1.5 - 2.5m³ of mortar exhibiting significant advantages.

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Advantages of A3!

- ✓ can replace 100% lime in cement mortars
- ✓ does not corrode metals and does not cause burns to hands and eyes
- ✓ eliminates the formation of lime eruptions (flakes)
- ✓ increases strength, reduces crack formation and water retention
- ✓ exhibits premium workability and adhesive capacity
- ✓ is easy to transfer, store and use
- ✓ provides significant economy and cleanness

3D Concrete Panels

A3 is ideal in sprayed mortar applications (3D panels).

Aggregate quality - Sea sand

In order to obtain an easy-to-work-with mix in case of a bad quality aggregate (coarse-grained aggregate), it is required to add additional cement (approx. 2-3 shovels of cement per half bag of mix).

If you use sea sand, it should be washed beforehand.

Lime Paste

If you use lime paste and **A3** simultaneously, there would be no problem whatsoever.

INSTRUCTIONS FOR USE IN A MIX WITH 25kg OF CEMENT

STEP 1 • Add water (3/4 of the required quantity) • Add 2 - 2.5kg of **A3**

• Add 4 - 5 shovels of sand and stir for 2 minutes

STEP 2 • Add 25kg of cement • Add the rest of the sand

• Add the rest of the water • Stir for 3 minutes

NOTE

Increasing the stirring time means

- Enhancing workability
- Improving the final result
- Reducing the required **A3** quantity

