



METASTAR™ IN LIME MORTARS & PUTTIES

MetaStar is a pozzolana made from purified kaolin which can be blended with all types of hydraulic and non-hydraulic limes.

Pozzolanic materials have been used for construction since ancient times. Natural pozzolanas, or in some cases calcined minerals, were blended with calcium hydroxide and water to make strong cementitious materials. Many structures made from those lime/pozzolana concretes are still in good repair after 2000 - 4000 years.

METASTAR is manufactured under strict quality control conditions, and has a high and consistent pozzolanic activity. **MetaStar** lime mortars can be used in new construction projects or to repair historic structures; they are compatible with all traditional building materials.

BENEFITS OF METASTAR

- Rapid and predictable setting times
- Increased compressive strength
- Increased resistance to erosion
- Colour compatible - **MetaStar** is available in white, pale cream or pale pink

HOW MUCH METASTAR SHOULD BE USED

- With pure calcium hydroxide, effective dosing is in the range of 5 - 40 mass%, with 10 - 15 mass% being typical.
- With hydraulic limes, the degree of hydraulicity can be adjusted to a consistent value by adding **MetaStar**. The exact dose depends on the lime source, but 10 mass% is a good starting mixture.

Figure 1 shows the effect of **MetaStar** on the 28-day compressive strength of a non-hydraulic lime putty. Figure 2 shows the beneficial effect of **MetaStar** on the 28 day strength of two hydraulic lime mortars, from the UK and France.

FIGURE 1: MetaStar in non-hydraulic lime putties

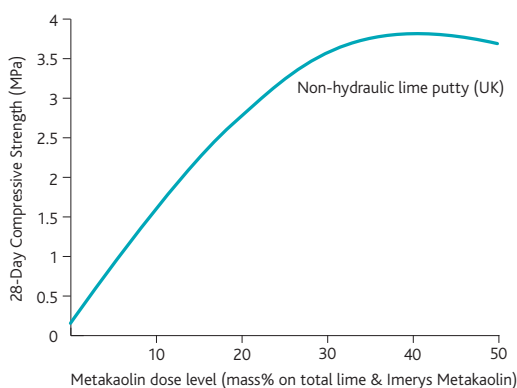
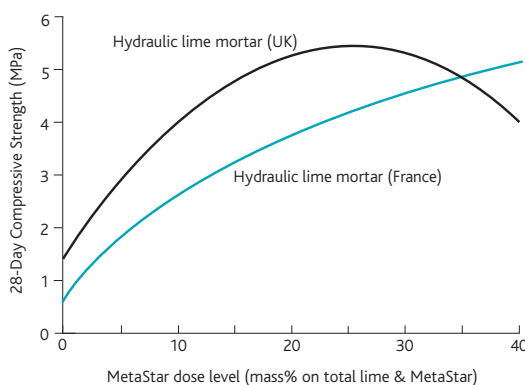


FIGURE 2: MetaStar in hydraulic lime mortars



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