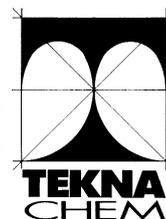




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# AETERNUM FIRE

FIREFIGHTING PLASTER



## DESCRIPTION

**AETERNUM FIRE** is a firefighting pre-mixed special plaster designed to resist to high temperatures.

With its low thermal conductivity, **AETERNUM FIRE** is the result of multiple tests performed both in the laboratory and on the site, consisting of a mixture of hydraulic binders appropriately balanced with highly insulating inorganic compounds and particularly resistant to high temperatures and thermal shocks.

If applied following the correct thickness (between 4.5 and 6 cm) **AETERNUM FIRE** remains structurally intact for over 120 minutes, in direct contact with the flames, at temperatures up to 1400 °C.

The passive fire protection requires more comprehensive, safe and certified solutions.

In this regard, we ensure that not only each component, but also the entire compound, provides:

- effectiveness and continuity of fire protection;
- maximum protection under fire conditions.

The plaster is certified as class T1 and T2.

## FIELD OF USE

**AETERNUM FIRE** is recommended for permanent fire protection.

**AETERNUM FIRE** is generally used as fire fighting treatment for tunnels and galleries.

## APPLICATION RECOMMENDATIONS

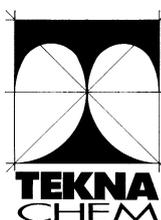
**AETERNUM FIRE** should be mixed following the dosage of:

20 Kg of product / 6-9 litres of water.

Mixing must be done using a whip driller or, even better, a mixer, until the dough is smooth and free of lumps, reaching a thixotropic consistency. The water amount obviously changes the rheology and thixotropic properties of the dough; the variation of the water amount depends on the cohesion that the plaster will have to obtain after being placed onto the vertical wall and on the substrate to which it will have to adhere; it must be added gradually.

The setting time as well as the temperature of the environment will depend also on the amount of water used. The dough, finally, must be applied with a mechanical coating machine and smoothed right after its setting".

Our technical team is at your disposal to advise the best dosage and conditions of use.



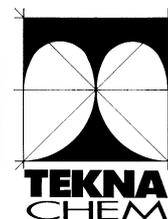
**TEKNA CHEM** S.r.l.

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20838 Renate (MB) - ITALY  
**Tel.** +39 (0)362.91.83.11 **Fax.** +39 (0)362.91.93.96  
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*The information contained in this data sheet, while representing the most advanced stage of knowledge, does not exempt the user from careful preliminary tests in their employment conditions and exercise. We decline therefore any responsibility for the improper use of the product.*



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## TECHNICAL DATA SHEET

### WARNINGS

The setting process is simple as it requires the same modalities of a normal cement-based mortar.

Please store in a dry environment.

In case of contact with eyes, rinse immediately with water.

**AETERNUM FIRE** does not contain any compounds that could be harmful to health; it does not contain asbestos or any of its compounds or fibers of any kind.

### STORAGE

If the product is stored in a place away from bad weather conditions, following a standard temperature and under controlled humidity, it will remain intact for 6 months from the date of purchase.

### PACKAGING

Bags of 20 kg

### CERTIFICATIONS

**AETERNUM FIRE** is certified as firefighting product according to the legislation UNI 11076:2003 ("Modalità di prova per la valutazione del comportamento di protettivi applicati a soffitti di opere sotterranee, in condizioni d'incendio") con la:

- classification **T1** with thickness of 6 cm;
- classification **T2** with thickness of 4,5 cm.

Certificate n° 928.OUN0350/11 issued by LAPI, Laboratorio Prevenzione Incendi SPA (Laboratory of fire prevention), Prato (FI), Italy.

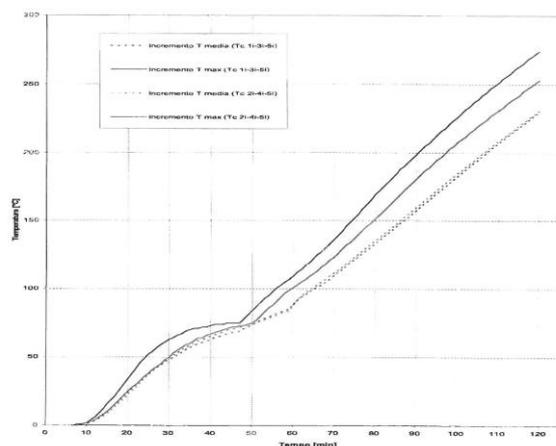
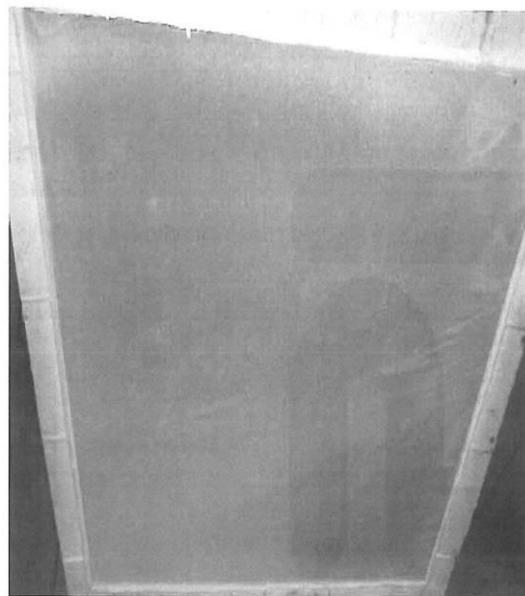
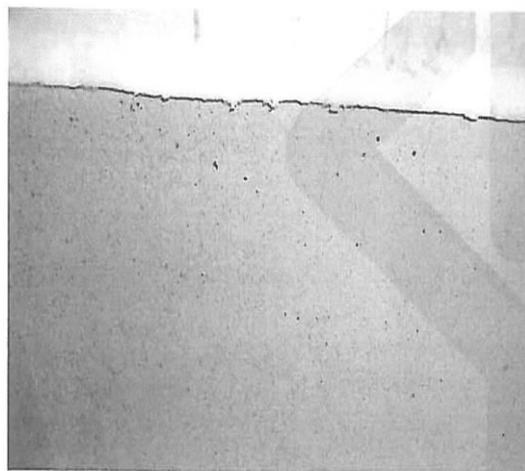


Grafico 3: Incremento temperatura media e massima in corrispondenza dell'interfaccia tra protettivo e soletta



Exposed side (protective) after performing the test



Protective detail after performing the test.



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