

TECWOOL® F & T MORTAR

FOR CONSTRUCTION APPLICATIONS

TECWOOL® F:

- TUNNELS
- MIXED SLABS
- WOOD BEAMS & CERAMIC CEILINGS
- CONCRETE BEAMS
- CONCRETE SLABS
- THERMAL INSULATION
- METAL STRUCTURES
- VENTILATION DUCTWORK
- FIRE BELT BARRIER SYSTEM
- CARBON FIBER PROTECTION
- OTHER MATERIALS PROTECTION

TECWOOL® T:

- THERMAL INSULATION



INSTRUCTION MANUAL

TECWOOL® MORTAR SPRAYING APPLICATION

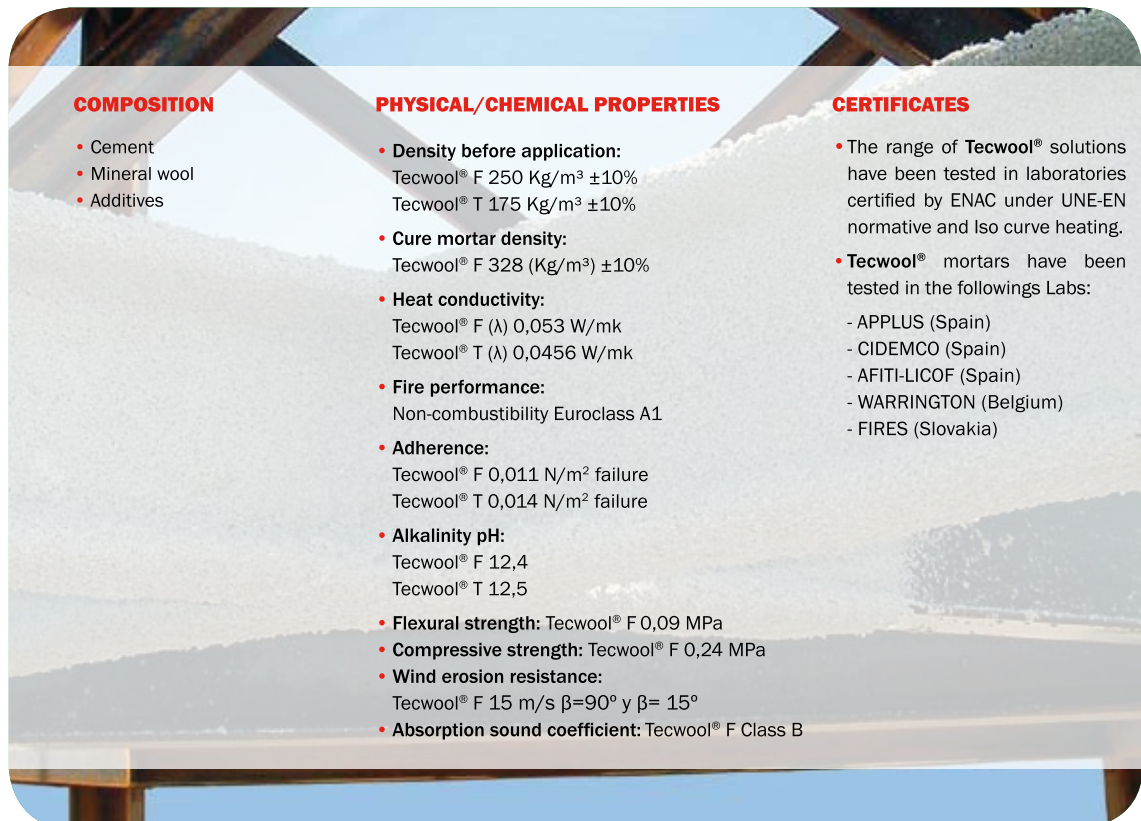
Tecwool® application is made by pneumatic machines transporting dry product through the projection tube, mixed with water in the projection pistol.

The water addition should be permanent and generous at all times.

The application should be carried out with the projection pistol perpendicular to the surface and a distance between 50 and 150 cm.

WORK SUPPORT

- **Metallic surfaces:** must be clean, degreased and without remaining particles.
- **Concrete surfaces:** must be clean, degreased and clean from surplus wax.
- **Wooden surfaces:** use a galvanized mesh as an interior armor located to two thirds of the projection thickness.
- **Mortar surfaces:** repair and clean cracked surfaces before new mortar application.
- **Metal decks, galvanized metal surfaces or lacquering:** no need for prior preparation, it can be applied directly to support provided that the distance between straps does not exceed 120 cm.
- **Plastic skylights surfaces:** the mortar application must be carried out after the adhesive application.
- **Plaster surfaces, brick or porous medium:** apply the product directly after having applied plenty of water on the support to be protected.



COMPOSITION	PHYSICAL/CHEMICAL PROPERTIES	CERTIFICATES
<ul style="list-style-type: none">• Cement• Mineral wool• Additives	<ul style="list-style-type: none">• Density before application: Tecwool® F 250 Kg/m³ ±10% Tecwool® T 175 Kg/m³ ±10%• Cure mortar density: Tecwool® F 328 (Kg/m³) ±10%• Heat conductivity: Tecwool® F (λ) 0,053 W/mk Tecwool® T (λ) 0,0456 W/mk• Fire performance: Non-combustibility Euroclass A1• Adherence: Tecwool® F 0,011 N/m² failure Tecwool® T 0,014 N/m² failure• Alkalinity pH: Tecwool® F 12,4 Tecwool® T 12,5• Flexural strength: Tecwool® F 0,09 MPa• Compressive strength: Tecwool® F 0,24 MPa• Wind erosion resistance: Tecwool® F 15 m/s β=90° y β= 15°• Absorption sound coefficient: Tecwool® F Class B	<ul style="list-style-type: none">• The range of Tecwool® solutions have been tested in laboratories certified by ENAC under UNE-EN normative and Iso curve heating.• Tecwool® mortars have been tested in the followings Labs:<ul style="list-style-type: none">- APPLUS (Spain)- CIDEMCO (Spain)- AFITI-LICOF (Spain)- WARRINGTON (Belgium)- FIRES (Slovakia)

OTHER INFORMATION

FINISHING TYPES

Raw, natural finish

For thicknesses not exceeding 25 mm. the aesthetic results are very acceptable. For a deeper thickness, it is advisable to apply a final finish with a 5 mm. thickness.

Float finish

It is advisable to put rules on edges or areas where a correct geometric form is required. Subsequently apply the product with a thickness slightly higher than desired, always applying the product moistened with a final spray of water. Then proceed to flatten the product by float.

One of the best features of **Tecwool® F & Tecwool® T** are that it ensures a smooth and decorative surface.

Painted

Tecwool® F & Tecwool® T needs no finishing paint and is resistant to the elements.

If a finishing paint application is required, it is imperative to be compatible with the product's 12.5 pH. Paint should not be applied until at least two weeks after the spraying of **Tecwool® F & Tecwool® T** and always according to the drying instructions. Otherwise the water drainage and the drying of the fireproof product will be difficult.

Normally, in eight days time about 90 % of the water contained evaporates.

A finishing paint should not be applied immediately after the application, as the remaining 10% of water would not be able to evaporate.

HYGIENE AND SAFETY

Tecwool® F & Tecwool® T are:

- Non toxic/pathonagenic.
- Asbestos and glass silica free.
- Must be handled carefully with industrial gloves, safety goggles and safety working clothing.

Therefore **Tecwool® T & Tecwool® F** presents no risk to health under standard working conditions.

PRODUCT FORMAT AND STORAGE

Tecwool® Mortar is available in 25 kg. sacks, perfectly identified with a sticker indicating the production date, sack # and expiration date. This product must be stored on pallets in a dry place.



ADVANTAGES OF TECWOOL®

- 1 Due to their fiber content, Tecwool® F & T mortar absorbs any contractions and avoids the problems of cracks that are typical of other mortars composed of vermiculite.
- 2 Minimal material waste due to a product application that is not pre-mixed.
- 3 Application: The product goes dry through the hopper by means of the blower, so it can be applied over long distances and/or heights.
- 4 Versatility of finishes. Raw, floated, painted, etc.
- 5 Easy cleaning with water.
- 6 High yields > 90 %.

MAIN PROJECTS (SPAIN)

NEW AIRPORT TERMINAL BARAJAS (Madrid)
M-30 BY PASS NORTH TUNNEL (Madrid)
AVE (High Speed Train) TUNNEL (Malaga)
SPORTS PALACE (Madrid)
HOSPITALS, HOTELS, UNIVERSITIES, MALLS,
LOGISTIC CENTERS, ...



For further information please contact our agent:



Other Tecresa's products:
Tecwool® 825 Mortar • Tecbor® Boards