

TECWOOL F MORTAR

KEY FEATURES

- ▶ high durability and resistance
- ▶ no shrinkage problem, no cracking
- ▶ application without primers
- ▶ does not induce any corrosion
- ▶ variable finishes (raw, float, painted)
- ▶ minimal material waste
- ▶ fast drying capacity
- ▶ dry material in machine tank
- ▶ work preparation time reduced, possibility of work interruption
- ▶ non toxic, asbestos and glass silica free

DESCRIPTION

Tecwool F is a mortar made of rock wool, cement and other additives, specifically designed for fire protection of all types of building structures and substrates. **Tecwool F** provides resistance from R15 to R240 for steel structures and from R15 to R240 for reinforced concrete structures. Mortar is applied by pneumatic spraying machines. During application, **Tecwool F** mortar is mixed with spray water at the nozzle head.



CERTIFICATES

The large range of **Tecwool F** application solutions have been tested in laboratories certified by ENAC under UNE-EN normative in according with ISO standard heating curve. **Tecwool F** has obtained the **CE** mark with the certificate of conformity no. 1220-CPD-1110. **Tecwool F** mortar has been tested and certificated in:

- ▶ ITB (Poland)
- ▶ Warrington (Belgium)
- ▶ EFECTIS (France)
- ▶ APPLUS (Spain)
- ▶ CIDEMCO (Spain)
- ▶ FIRES (Slovakia)



APPLICATION SUBSTRATE

- ▶ steel
- ▶ concrete
- ▶ galvanised or pre-lacquered metal sheets
- ▶ bricks and porous supports
- ▶ plaster surfaces
- ▶ wood
- ▶ synthetic plastics



TECHNICAL CHARACTERISTICS AND SPECIFICATIONS

SPECIFICATIONS	TECWOOL F	NORMATIVE
Composition	cement, rock wool and other additives	
Fire reaction	non-combustible / euroclass A1	EN 13501-1
Nominal mortar density	250 kg/m ³ ± 10%	ISO 3049
Cured mortar apparent density (after 28 days)	328 kg/m ³ ± 10%	EN 1015-10
Sprayed fresh mortar apparent density	464 kg/m ³ ± 10%	
Thermal conductivity	0.061 W/mk	EN ISI 10456
Alkalinity (pH value)	12.4	
Dry mortar extract (at 105°C)	98,90%	EN 480-8
Steam permeability	2.1 (μ)	EN ISO 12572
Resistance to fungi	immune	
Protection against steel corrosion	yes	
Flexural strength	0.15 Mpa	EN 1015-11
Compressive strength	0.19 Mpa	EN 1015-11
Wind erosion resistance	15 m/s β=90° and β=15°	
Toxic/Pathogenic	no	
Free crystalline silica, asbestos	no	
Weighted sound absorption ratio	w = 0.8 (H)	EN ISO 11654
Acoustic absorption class	B	
Adherence	0.011 N/m ² (failure)	
Packaging	25 kg bags	

FINISHES

Different finishes may be applied to **Tecwool F**: row, float, painted, etc., according to different esthetic requirements. Once the application is completed and in order to obtain a smooth finish, a roller could be used and pressed slightly over the wet mortar, until the desired finish is obtained. It is possible to paint the mortar with elastic acrylic coatings, to form a moisture barrier. Before painting, the mortar should be completely dry (28 days after application).

HEALTH AND SAFETY

Tecwool F is manufactured with inorganic components such as rock wool, classified according to European Directive 67/548/EEC as Xi; R-38 (health risk-free). Likewise, it is neither toxic nor pathogenic; it does not contain free asbestos or crystalline silica; and it is not affected by fungi growth.

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