

GENERIC TYPE

Cementitious inorganic fireproofing formulation

PRODUCT INTRODUCTION

- A single package powder component mixed with water before application.
- Used as fireproof interior and exterior structural beams, joists, walls, roofs, decks.
- Cementitious - Durable, remains in place during construction period.
- Asbestos-free, mineral wool free
- Alum and Chloride free - no special priming required
- Styrene free - No toxic decomposition gasses
- No primer is normally required and directly apply on rusty steel.
- Neither promote nor prevents corrosion
- Tanda AP25 has been fully test and accessed to the following standards:
For Fire Protection
BS 476: Part 21
ASTME119
For Acoustic Insulation
ISO 354
ASTM C423
- Topcoats is generally not required. In severely corrosive atmosphere, consult Tanda Technical service for selection of the coating most suitable for the operating environment.

APPLICATION CONDITIONS

- Before apply Tanda AP25, the substrate must be free of all oil, grease, condensation or any other contamination.
- For high coating thickness, mechanical attachments may be required.
- Surface temperature shall be 4 - 38°C, Relative Humidity 0-95%

APPLICATION INSTRUCTION

Equipment

- Mixer - 23-42m³, 52 rpm minimum heavy-duty mortar mixer with rubber tipped blades which scrape the side.
- Pumps - Rotor pump
- Air line - Use 1.2cm ID line with a minimum bursting pressure of 6.9 Kpa
- Spray Guns - Plasterers pole gun with 3/8"-6/16" fluid tips
- Compressor - 9 CFM at 100psi and higher for longer distance
- Material line - 1" (2.4cm) ID hose with 300psi minimum bursting pressure

Mixing

- Add 20±4.0 litres of clean water to the mortar mixer.
- Add one bag of Tanda AP25 to the mixer, turn mixer on.
- Mix for 3-5 minutes at 52 RPM.
- Check the wet density if necessary, it should be around 580-640 kg/m³

Pot life

- 2 hours at 24°C

Application

- It is recommended that mixed material should be sprayed within 45 minutes at 21°C
- Tanda AP25 must be applied by spray in a monolithic application. Film build will depend on application method, weather conditions and equipment used.
- For application required more than one coat or when applying overhead, a scratch coat of approximately 12mm is recommended. Allow to set for about 4-6 hours before applying subsequent coats.
- If the preceding coat has dried, dampen the surface with water before application of additional coats.

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Hours Fire
Resistance

APPLICATION INSTRUCTION

Finishing

- Tanda AP25 is normally left as a spray finish. Material can be tamped down after application.

Curing

- Freshly applied Tanda AP25 must be protected from rain or running water for 24 hours at 21°C

Cleanup & Safety

- Pump, mixer and hose should be cleaned with clean water at least once every 4 hours of application.
- Wet material can be cleaned up with soapy or clean water
- Do not breathe dust. Tanda AP25 is caustic and will irritate mucous membranes. Use OSHA approved dust mask while mixing.
- For eye contact, flush with copious amount of water in accordance with OSHA instructions, Goggles or safety glasses are recommended.
- Wash skin with clean water to prevent irritation.

PHYSICAL PROPERTIES

Colours	Grey / Off-white
Mass density	400-850kg/m ³
Compressive Strength (ASTM E761-92)	0.51N/mm ²
Bond Strength Unprimed Steel (ASTM E736)	314psf
Impact Resistance (ASTM E760)	Pass
Flame Spread (ASTM E84)	10
Smoke Development (ASTM E84)	0
Combustibility (BS 476 Part 6& 7)	Class 0
Air-Erosion (ASTM E859)	0 g/ft ²
Coverage at 25mm	3.9m ²
Shelf life (cool and dry place)	at least 18 months
Packing	15 kg/bag

PRODUCT
DATA SHEET

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Hours Fire
Resistance

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