

LIQUID WATERPROOFING SYSTEM

TUFF TECH **PRO** TECHNICAL CHARACTERISTICS

Properties	Values	Method
SPECIFIC GRAVITY (KG/M³)	1.320 – 1.420	DIN 53 217
VISCOSITY AT 23°C	2.650 cps	ASTM D2196-86
DRY EXTRACT	>90	EN 1768
FLASH POINT (°C)	42°C	ASTM D93
ASHES AT 450°C % WEIGHT	42-47%	EN 1879
TEMPERATURE	2°C and rising and not exceeding 30°C	
HARDNESS SHORE AT 23°	C>75	
TENSILE STRENGTH	>3 MPa	
DRY TIME	2-8 hours. Fully cured 24 hours	
OVERCOAT TIME	±5 - ±48 hours	
ELONGATION	>400%	
WATER VAPOUR RESISTANCE	μ=2.500	
CONCRETE ADHERENCE	>2 MPa	

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LIQUID WATERPROOFING SYSTEM

TUFF TECH **PRO** APPLICATION GUIDE

Benefits and product information

- ✓ Approved for use on Green Roof
- ✓ TUFF TECH **PRO** can be used on new or existing roofs, walkways, balconies, gutters etc.
- ✓ Application with solvent resistant roller.
- ✓ Use fully reinforced with TUFF TECH **PRO** REINFORCING MATT ensures correct thickness.
- ✓ Can be used all year round.
- ✓ Fully trafficable
- ✓ Instantly rain resistant after application.
- ✓ Seamless membrane.
- ✓ Excellent adhesion to different substrates: plywood, bitumen membranes, asphalt, metals, brick, concrete, wood.
- ✓ Fresh concrete must be cured for 28 days.
- ✓ On EPDM and TPO it is recommended to install patch test to check compatibility.
- ✓ Never use silicone sealants. Always use PU based mastics.
- ✓ It does not require ADR transport
- ✓ STORAGE
- ✓ Store unopened in original container in a cool dry place within 5°C - 25°C 9 out of direct sunlight.
- ✓ Protect from frost. Keep away from sources of ignition.
- ✓ For transportation purposes ensure that product is upright and the lid fully closed.
- ✓ Shelf-life 6 months. TUFF TECH **PRO** can be used after a few weeks if opened, just remove skin and stir contents.

Tuff Tech **PRO** application instructions

STIR BEFORE USE

1. Apply when ambient temperature is minimum of 2 Degrees and rising and not exceeding 30°C
2. Ensure substrate is in good condition, dry, clean and free from dust, moss or lichen.
3. All edge trims to be fixed to substrate prior to application of TUFF TECH **PRO**.
4. TUFF TECH **PRO** is self-terminating.
5. Open tin and mix thoroughly before using.
6. Apply TUFF TECH **PRO** straight out of the can onto the substrate using a solvent resistant roller. Dry roll TUFF TECH **PRO** REINFORCING MATT into the product until the TUFF TECH **PRO** is drawn through, then immediately apply another coat of TUFF TECH **PRO** ensuring the matting fully embedded avoiding any pinholes.
7. It is advised to start at the perimeter of the area including upstands to a minimum of 150mm (if possible), ensuring the matting overlaps any trims, joints or change of material by 50mm.
8. Infill the remaining field area using the same method as above using TUFF TECH **PRO** REINFORCING MATT, at a minimum coverage rate of 1.27Kg per m². The whole area including trims must be coated to form a continuous seamless membrane. A final layer at a rate of 0.6 Kg per square metre. Please take time to make sure no pin holes exist. Curing time is approximately 2-12 hours depending on weather. Fully cured in 24 hours. These are minimum coverage rates, actual performance will depend upon substrate surface.

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Properties in relation to Fire:

TUFF TECH PRO has only been tested on a fire-retardant material (12mm calcium silicate board) and will need additional testing, if required, when used on combustible materials or combinations of other roof components.