

Technical Data Sheet

FIRETITE

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Edition 01/21
Date of Issue Feb 2021



Application

FIRETITE is a 3-component mineral based in-situ insulation material. Limited combustibility class A2 fire rated insulation material ideal for new and refurbished cavity wall insulation. The systems combines the benefits of a hydrophobic and open pore mineral insulation material with a fast, safe and seamless airtight process of a self sealing foam system.

Chemical Characteristics

Component T0: Template	3-5% ionic and non-ionic surfactants; 1-3% silico-organic compounds; 92-96% water
Component F0: Filler	40% mineral particles; 4% polymeric binder; 56% water
Component X0: Crosslinker	1% crosslinker; 99% water

Supply

All product components are supplied in 1m³ IBC containers. Component T0 is also available in 220L drums & Component X0 in 120L drums.

Storage

The components must be stored at all times in sealed, closed containers. The product should be stored at temperatures between -5 to + 40°C. Prior to use the aqueous components must be thawed and homogenised completely. The components can be stored for up to 12 months.

Possible Hazards

Component T0 can cause serious eye irritation and will carry a warning H319. Please refer to our safety data sheet. In accordance with Globally Harmonized Systems EU (GHS) criteria, components F0 & X0 do not require a hazard warning. In its completed dry state, FIRETITE does not pose any hazardous risks.

Waste Disposal

According to the hazard rating, dry FIRETITE foam can be disposed as household waste. Depending on the local disposal regulation, mixed construction waste containing FIRETITE can be disposed like normal construction waste without separation. It is not recommended to release or flush the components into sewage systems.

Installation Instructions

Please refer to or separate installation instructions information sheet

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FIRETITE™ is a registered trademark of ECON Polyurethanes



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Product specification

Component	Appearance	Density (20°C)	Viscosity (20°C)	pH value	Solid Content (2h, 120°C)
T0	Yellowish to brown, Transparent	1-1.1kg/L	20-80 mPas	Approximately 12	4-8% weight
F0	Grey, turbid	1.25-1.40k/L	700-2500 mPas	6-9.5	39-44% weight
X0	Colourless to yellow, transparent	1-1.1kg/L	5-30 mPas	3.5-5	-
FTX1 dry	Grey	28-35g/L	-	-	95-100% weight

Installed Component ratios

	Mass g/l _{foam}	Mass kg/kg _{foam}	Mass ratio/l	Density	Volume-ratio/l
Template T0	20	0.18	1	1	1
Crosslinker F0	12	0.11	0.6	1	0.6
Filler X0	80	0.71	4	1.27	3.15
Total	112	1	5.6		4.75

Process

Step 1	Step 2	Step 3	Step 4
Frothing of template	Addition of crosslinker	Addition of filler	Setting & drying - cavity wall
The product starts with the template component which is mixed with pressurised air to form a creamy Template foam with a density of 20g/l (+/- 7%)	The crosslinker component is added to the Template foam to produce a Template - Crosslinker foam of 32g/l (+/- 7%)	The filler component is added in the third mix to create a density increase up to 112g/l (+/- 7%)	The final mix foam is of a greyish colour and remains creamy in appearance until the product is fully dried out.

It is essential to mix the three components to the correct ratio. The density will be dictated by the amount of air used. A higher density results in a more stable foam. Foam density should be checked every hour during the installation process.

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CE Marking



ETA-21/0540

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In-situ formed thermal insulation made of mineral-based foam

Reaction to Fire	- Class A2-s1,d0	EN13501-1:2018
Thermal Conductivity	- 0.034 W/(m.K))	EN 12667:2001
Density range	- 29kg/m ³ to 35kg/m ³	EN 1602:2013
Water absorption at 28d partial immersion	- < 1kg/m ² (~1.5%vol)	EN 12087:2013
Dimensional stability at 23°C & 50% RH	- ≤ 2.0% (length, width & thickness)	EN 1603:2013
Conditioning at 28 days		
Dimensional stability at 70°C & 90% RH	- ≤ 5.0% (length & width)	
Conditioning at 28days	≤ 12.0% (thickness)	
Dimensional stability at -30°C	- ≤ 2.0% (length, width & thickness)	
Conditioning at 24hours		
Reactivity	- ≤ 60 seconds	

GEV EMICODE classification emission class = EC1 plus

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