

**FINTEX • TETRAKEM**

# **FIRE SECURE PRODUCTS**



**FINTEX-TETRAKEM OY**

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# REFERENCES

## Shipyards

Chantiers de l'Atlantique, France  
Helsinki Shipyard, Finland  
Meyer Werft, Papenburg, Germany  
Meyer Turku, Finland  
Mitsubishi Koyagi, Nagasaki, Japan  
MV Werften, Wismar, Germany  
MV Werften, Rostock, Germany  
MV Werften, Stralsund, Germany  
Rauma Marine Constructions, Finland  
Piikkio Works Oy, Finland

## Cruisers

Harmony of the Seas  
Oasis of the Seas  
Allure of Seas  
Symphony of the Seas  
M/S Freedom of the Seas  
M/S Liberty of the Seas  
M/S Independence of the Seas  
M/S AIDAprima  
M/S AIDAprima  
Mein Schiff 3-6  
Costa Toscana  
Costa Smeralda  
Carnival Mardi Gras  
MSC Meraviglia  
MSC Bellissima  
MSC Grandiosa  
Celebrity Edge  
Carnival Celebration  
Mardi Gras  
Costa Toscana  
Scenic Eclipse  
Scenic Eclipse II





# 1027 Fire Secure Mastic Adhesive

Product	One-component acrylic-based sealant and mounting adhesive for maritime industry where IMO-classification is required.
Phase	Off white paste like, mild odor.
Suitability	To join materials together, fill holes ja seal etc. Fiberglass fabrics, PVC, ABS,EPS, polystyrene foam, mineral wool, glass wool, mineral board, decoration sheets, panels, ceramic tile for decorating purposes, metal and galvanized metal, textiles, steel, painted steel, aluminium. Not corrosive towards metals.

## Technical data

Application Temperature	+ 5°C - + 40°C
Density	1,40 g/ml
Application rate	550 g/min, 3 mm/4 bar
Curing time	± 2–3 mm / 24 h
Elongation break	150 %
Joint movement	15 %
Shore	30 Shore A DIN 53505
Open time	10–15 min
Temperature resistance	- 20°C - +75°C
Using temperature	Minimum + 10°C
Storage stability	18 months after date of production, stored in dry place. +5°C - + 25°C. Protect from freezing.
Certificate	IMO
Colour	Off White or tintable for common colour systems.
Packaging	330 ml plastic cartridge.

## Operating directions

Conditions	Surfaces have to be clean and dry, free from grease and dust. In order to obtain good drying, one of the surfaces has to be porous. Application with a hand- or pneumatic caulking gun. Sealant is paintable after fully dried. Always test the adhesive prior to application. Finish and smoothen with water. Adhesive is freeze resistance after dried.  Restricted use: Where the product is required to have a surface with low flame spread characteristics (according to IMO FTPC Part 5) and the product is required not to be capable of producing excessive quantities of smoke and/or toxic products or not to give rise to toxic hazards at elevated temperatures (IMO FTPC Part 2), the material shall be used as a strip.  The stripe shall not be more than 30 mm wide and 3 mm thick and on both sides of it have to be at least 50 mm wide area non-combustible material.
Cleaning	Water and soap
Tools cleaning	Water
Environment	Adhesive waste has to be delivered to hazardous waste station. Empty cartridge can be recycled or delivered to waste station.
Safety	Product health and safety data sheet must be read before use. These are available at Fintex websites.
Fire resistant	Not flammable
Transport	This product does not sphere of influence in hazardous material.



# 1050 Fire Secure Adhesive

Product	One-component acrylic-based sealant and mounting adhesive for maritime industry where IMO-classification is required.
Phase	Off white paste like, mild odor.
Suitability	To join materials together, fill holes ja seal etc. Fiberglass fabrics, PVC, ABS,EPS, polystyrene foam, mineral wool, glass wool, mineral board, decoration sheets, panels, ceramic tile for decorating purposes, metal and galvanized metal, textiles, steel, painted steel. Not corrosive towards metals.

## Technical data

Application Temperature	+ 5°C - + 40°C
Density	1,40 g/ml
Application rate	550 g/min, 3 mm/4 bar
Curing Time	± 2-3 mm / 24 h
Elongation break	150 %
Joint movement	15 %
Shore	30 Shore A DIN 53505
Open time	10–15 min
Temperature resistance	- 20°C - +75°C
Using temperature	Minimum + 10°C
Storage stability	12 months after date of production, stored in dry place. +5°C - + 25°C. Protect from freezing.
Certificate	EC Type- Examination Certificate VTT-C-11651-15-16. U.S. Coast Guard approval. Bureau Veritas Type Approval Certificate 24618/B0 BV
Colour	Off White or tintable for common colour systems.
Packaging	10L



## Operating directions

Conditions	Surfaces have to be clean and dry, free from grease and dust. In order to obtain good drying, one of the surfaces have to be porous. Application with a hand- or pneumatic caulking gun. Sealant is paintable after fully dried. Always test the adhesive prior to application. Finish and smoothen with water. Adhesive is freeze resistance after dried.  Restricted use: Where the product is required to have a surface with low flame spread characteristics (according to IMO FTPC Part 5) and the product is required not to be capable of producing excessive quantities of smoke and/or toxic products or not to give rise to toxic hazards at elevated temperatures (IMO FTPC Part 2), the material shall be used as a strip.  The stripe shall not be more than 30 mm wide and 3 mm thick and on both sides of it have to be at least 50 mm wide area non-combustible material.
Cleaning	Water and soap
Tools cleaning	Water
Environment	Adhesive waste has to be delivered to hazardous waste station. Empty cartridge can be recycled or delivered to waste station.
Safety	Product health and safety data sheet must be read before use. These are available at Fintex websites.
Fire resistant	Not flammable
Transport	This product does not sphere of influence in hazardous material.

**Table 1**  
Suitability of various materials when using  
Tetrakem 1050 and 1027 **as adhesive** and recommended pretreatment.

Materials	Stainless steel	Galvanized steel	Primer coated steel	Aluminium	Aluminium anodized	Steel aluminium	PVC	ABS	Fiberglass	Ceramic tiles	Concrete	Glass	Teak	Plywood	Fibre boards	Construction boards	Brass	PS, EPS	Fiberglass mesh	Textiles
Stainless steel																				
Galvanized steel		3	3		3	3	1	1	1	3	0	3	3	2	3	3	3	3	3	3
Primer coated steel		3	3		3	3	1	1	1	3	0	3	3	2	0	0	0	0	0	0
Aluminium											3	3	2	2	3	3	3	0	0	0
Aluminium anodized		3	3		3	3	1	1	1	3	0	3	3	2	0	0	0	0	0	0
Steel aluminium		3	3		3	3	1	1	1	3	3	3	3	2	0	0	0	0	0	0
PVC		1	1		1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
ABS		1	1		1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Fiberglass		1	1		1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Ceramic tiles		3	3		3	3	1	1	1	3	0	3	1	2	0	0	0	0	0	0
Concrete		0	0	3	0	3	1	1	1	0	0	3	3	2	0	0	0	0	0	0
Glass		3	3	3	3	3	1	1	1	3	3	3	3	2	3	3	3	3	3	3
Teak		3	3	2	3	3	1	1	1	1	3	3	3	2	3	3	3	3	3	3
Plywood		2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2
Fibre boards		3	0	3	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0
Construction boards		3	0	3	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0
Brass		3	0	3	0	0	1	1	1	0	0	3	3	2	0	0	3	0	0	0
PS, EPS		3	0	0	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0
Fiberglass mesh		3	0	0	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0
Textiles		3	0	0	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0

Suitability	Pretreatment		
Excellent		No pretreatment	0
		Fine grinding	1
Good		Coarse grinding	2
		Wiping grease off	3
Satisfying			
Not recommended			

This table, Table 1, tells suitability of Tetrakem Fire Secure 1027 and 1050 when using them as adhesive. In Table 2 are suitabilities when using Tetrakem Fire Secure 1027 and 1050 as sealant. When glueing non-porous materials the evaporating water must be let out from between materials during drying period . In these cases adhesive must be combed open with a suitable spatula e.g. 8-10mm.

**Table 2**  
Suitability of various materials when using  
Tetrakem 1050 and 1027 **as sealant** and recommended pretreatment.

Materials	Stainless steel	Galvanized steel	Primer coated steel	Aluminium	Aluminium anodized	Steel aluminium	PVC	ABS	Fiberglass	Ceramic tiles	Concrete	Glass	Teak	Plywood	Fibre boards	Construction boards	Brass	PS, EPS	Fiberglass mesh	Textiles
Stainless steel	3	3	3	3	3	3	1	1	1	3	0	3	3	2	3	3	3	3	3	3
Galvanized steel	3	3	3	3	3	3	1	1	1	3	0	3	3	2	3	3	3	3	3	3
Primer coated steel	3	3	3	3	3	3	1	1	1	3	0	3	3	2	0	0	0	0	0	0
Aluminium	3	3	3	3	3	3	1	1	1	3	0	3	3	2	0	0	0	0	0	0
Aluminium anodized	3	3	3	3	3	3	1	1	1	3	0	3	3	2	0	0	0	0	0	0
Steel aluminium	3	3	3	3	3	3	1	1	1	3	3	3	3	2	0	0	0	0	0	0
PVC	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
ABS	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Fiberglass	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Ceramic tiles	3	3	3	3	3	3	1	1	1	3	0	3	1	2	0	0	0	0	0	0
Concrete	0	0	0	0	0	3	1	1	1	0	0	3	3	2	0	0	0	0	0	0
Glass	3	3	3	3	3	3	1	1	1	3	3	3	3	2	3	3	3	3	3	3
Teak	3	3	3	3	3	3	1	1	1	1	3	3	3	2	3	3	3	3	3	3
Plywood	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Fibre boards	3	3	0	0	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0
Construction boards	3	3	0	0	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0
Brass	3	3	0	0	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0
PS, EPS	3	3	0	0	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0
Fiberglass mesh	3	3	0	0	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0
Textiles	3	3	0	0	0	0	1	1	1	0	0	3	3	2	0	0	0	0	0	0

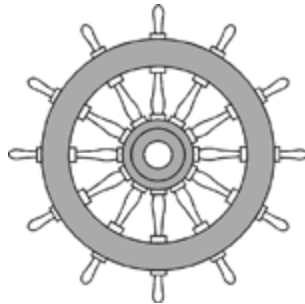
Suitability	Pretreatment		
Excellent		No pretreatment	0
		Fine grinding	1
Good		Coarse grinding	2
		Wiping grease off	3
Satisfying			

This table, Table 2, tells suitability of Tetrakem Fire Secure 1027 and 1050 when using them as sealant. In Table 1 there are suitabilities of various materials when using Tetrakem Fire Secure 1027 and 1050 as adhesive.



# EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that Eurofins Expert Services Ltd did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission implementing regulation (EU) 2020/1170 subject to any conditions in the schedule attached hereto.

## Fire Secure Mastic Adhesive 1027

meet the requirements imposed in IMO 2010 FTP Code, Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5) on

**materials with low flame-spread characteristics and not producing excessive quantities of smoke and toxic products or not giving rise to toxic hazards at elevated temperatures**

and the provisions of Marine Equipment Directive 2014/90/EU, that apply to

**surface materials with low flame-spread characteristics.**

These products have been assigned a U.S. Coast Guard Module B number (**164.112 / EC0809**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2018 signed February 18<sup>th</sup> 2019.

Manufacturer of the product is

**Fintex-Tetrakem Oy**

The Certificate is valid until May 24, 2026 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo May 24, 2021

This document is electronically approved

Tiina Ala-Outinen  
Manager, Building Structures

Heli Välimäki  
Senior Expert

**EUROFINS EXPERT SERVICES OY**

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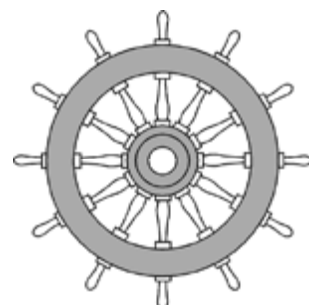


Manufacturer	Fintex-Tetrakem Oy Mäkirinteentie 13 FI-36220 Kangasala
Regulation Item	MED 1/3.18e surface materials with low flame-spread characteristics, adhesives used in the construction of 'A', 'B' & 'C' class divisions.
Product description	Fire Secure Mastic Adhesive 1027. One component acrylic-based sealant and mounting adhesive. Colour Off-White. Density of the product 1450 kg/m <sup>3</sup> .
Approved application	On at least 0,45 mm thick metal sheet or on non-combustible, non-metallic substrate.  Product can be spread with ≤ 4 mm notched trowel, not more than 60 mm wide stripe with at least 50 mm wide area of non-combustible material on both sides or product can be used on as a strip not more than 30 mm wide solid stripe and on both sides at least 50 mm wide area on both sides of the glue stripe.
Technical document	Approved for use as adhesive with low flame spread characteristics. FT Card, Fire Secure Mastic Adhesive 1027 data sheet, 28.8.2018.
Test reports	EUFI29-21001995-T2, (May 18, 2021), Eurofins Expert Services Oy. EUFI29-21001995-T3, (May 18, 2021), Eurofins Expert Services Oy.
Test methods	IMO 2010 FTP Code Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5).
Notes	This certificate replaces the previous EC Type-Examination Certificates (B-module) VTT-C-11651-15-16.  This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.  Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.  The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

END OF CERTIFICATE

# EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that Eurofins Expert Services Ltd did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission implementing regulation (EU) 2020/1170 subject to any conditions in the schedule attached hereto.

## Fire Secure Mastic 1050

meet the requirements imposed in IMO 2010 FTP Code, Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5) on

**materials with low flame-spread characteristics and not producing excessive quantities of smoke and toxic products or not giving rise to toxic hazards at elevated temperatures**

and the provisions of Marine Equipment Directive 2014/90/EU, that apply to

**surface materials with low flame-spread characteristics.**

These products have been assigned a U.S. Coast Guard Module B number (**164.112 / EC0809**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2018 signed February 18<sup>th</sup> 2019.

Manufacturer of the product is

**Fintex-Tetrakem Oy**

The Certificate is valid until May 24, 2026 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo May 24, 2021

This document is electronically approved

Tiina Ala-Outinen  
Manager, Building Structures

Heli Välimäki  
Senior Expert

Manufacturer	Fintex-Tetrakem Oy Mäkirinteentie 13 FI-36220 Kangasala
Regulation Item	MED 1/3.18e surface materials with low flame-spread characteristics, adhesives used in the construction of 'A', 'B' & 'C' class divisions.
Product description	Fire Secure Mastic 1050. One component acrylic-based sealant and mounting adhesive. Colour Off-White. Density of the product 1450 kg/m <sup>3</sup> .
Approved application	On at least 0,45 mm thick metal sheet or on non-combustible, non-metallic substrate.  Product can be spread with ≤ 4 mm notched trowel, not more than 60 mm wide stripe with at least 50 mm wide area of non-combustible material on both sides or product can be used on as a strip not more than 30 mm wide solid stripe and on both sides at least 50 mm wide area on both sides of the glue stripe.  Approved for use as adhesive with low flame spread characteristics.
Technical document	FT Card, Fire Secure Mastic 1050 data sheet, 28.8.2021.
Test reports	EUFI29-21001995-T2, (May 18, 2021), Eurofins Expert Services Oy. EUFI29-21001995-T3, (May 18, 2021), Eurofins Expert Services Oy.
Test methods	IMO 2010 FTP Code Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5).
Notes	This certificate replaces the previous EC Type-Examination Certificates (B-module) VTT-C-11651-15-16.  This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.  Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.  The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

END OF CERTIFICATE

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# FINTEX · TETRAKEM

*Craftsmanship you can rely on!*

## FT Card

## DATA SHEET

### 6065R Neofix Contact Adhesive IMO/MED

<b>Product</b>	A solvent-borne, toluene free, almost n-hexane free, special contact adhesive for shipyards, maritime industrial and professional use.
<b>Phase</b>	Slightly yellowish liquid synthetic rubber solution.
<b>Suitability</b>	Floor coverings, insulation fixing etc. in maritime industry and car body construction. Most suitable for joining rubber, cell rubber, leather, gaskets, floor- and wall coverings, moldings, metal, and different linings and insulations.

#### Technical data

<b>Application Temperature</b>	+ 10°C -- + 40°C.
<b>Density</b>	0,83 g/ml.
<b>Curing time</b>	5-15 minutes, depending on circumstances.
<b>Coverage</b>	approx. 4 m <sup>2</sup> /l.
<b>Open time</b>	10-40 minutes.
<b>Temperature resistance</b>	- 40°C - +75°C. Heat resistance of dry adhesive seam approx. +75°C without hardener. With 3-10% added hardener AD1600 heat resistance of dry seam approx. 80-90°C.
<b>Using temperature</b>	Minimum +5°C.
<b>Storage stability</b>	24 months after date of manufacture, stored in dry place. +5°C - + 25°C. Long storage may effect on brushability.
<b>Thinner</b>	1040 Neofix thinner
<b>Colour</b>	Yellowish
<b>Tools</b>	Brush, roller or spray gun.
<b>Packaging</b>	Steel cans of 1, 3, 10, 20, 200 and 1000L
<b>Certificate</b>	This product has been tested in accordance with fire safety directive for the shipbuilding industry using IMO Resolution MSC. 307(88) methods and meets the requirements of IMO 2010 FTPC Part2 and Part 5. Certificate EUFI29-19005465-MED.



NOTIFIED BODY 0809

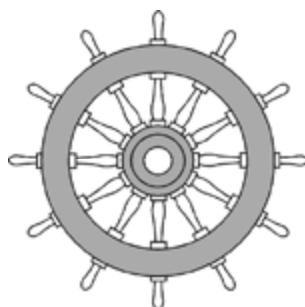
#### Handling instructions

<b>Conditions</b>	Surfaces have to be clean and dry, free from grease and dust. Surfaces can be coarsed. Apply adhesive with a brush or a roller thin and smooth layer to both surfaces. The adhesive can be diluted with 1040 Neofix thinner 5 to 20 % when using a spray gun system. Apply glue on both surfaces and let dry from 15 to 40 minutes, depending on conditions. Press surfaces firmly together, check carefully that there are no air bubbles between the surfaces. Over-dried surfaces can be reactivated with heat or with 1040 Neofix thinner. When heat activated, press surfaces together when those are still warm. The Neofix adhesive will hold immediately, but the full strength will develop in about two days. When thoroughly dried the adhesive is freeze resistant.
<b>Cleaning</b>	1040 Neofix thinner or acetone
<b>Cleaning of tools</b>	1040 Neofix thinner or acetone
<b>Environment</b>	Adhesive waste must be treated as hazardous waste. Empty cans can be recycled or delivered to waste station.
<b>Warnings</b>	Contains ethyl acetate and hydrocarbon solvents.
<b>Safety</b>	Safety data sheet must be read before use. These are available at Fintex websites.
<b>Fire resistant</b>	Highly flammable
<b>Transport</b>	ADR transportation class UN 1133: Adhesives containing flammable liquid 3, II. Store in properly closed cans in a cool and well ventilated storage. The regulations for storing and transportation of flammable liquids will apply.



# EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that Eurofins Expert Services Ltd did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission implementing regulation (EU) 2019/1397 subject to any conditions in the schedule attached hereto.

## 6065R Neofix contact adhesive.

meet the requirements imposed in IMO 2010 FTP Code, Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5) on

**materials with low flame-spread characteristics and not producing excessive quantities of smoke and toxic products or not giving rise to toxic hazards at elevated temperatures**

and the provisions of Marine Equipment Directive 2014/90/EU, that apply to

**surface materials with low flame-spread characteristics.**

These products have been assigned a U.S. Coast Guard Module B number (**164.112 / EC0809**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2018 signed February 18<sup>th</sup> 2019.

Manufacturer of the product is

**Fintex-Tetrakem Oy**

The Certificate is valid until November 3, 2024 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo November 4, 2019

This document is electronically approved

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Heli Välimäki  
Senior Expert

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Manufacturer	Fintex-Tetrakem Oy Mäkirinteentie 13 FI-36220 Kangasala Finland.
Regulation Item	MED /3.18e, surface materials with low flame-spread characteristics, adhesives used in the construction of 'A', 'B' and 'C' divisions.
Products	6065R Neofix contact adhesive.
Product description	A solvent borne contact adhesive for industrial use, density 0,83 g/ml.
Approved application	On bulkhead, wall and ceiling linings. On non-combustible, non-metallic substrate with density of 713 kg/m <sup>3</sup> or higher and a thickness of 25 mm or greater. Mass per unit area ≤ 420 g/m <sup>2</sup> .
Technical document	Data sheet, FT-card, ver.1.1, November 1, 2019.
Test reports	Test Report EUFI29-19004585-T3, (October 31, 2019), Eurofins Expert Services Oy.
Test methods	IMO 2010 FTP Code Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5).
Notes	<p>This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.</p> <p>Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.</p> <p>The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.</p>
END OF CERTIFICATE	



## FT-card

## 6055 FIRE SECURE WALLPAPER ADHESIVE

<b>Product</b>	Water borne adhesive for installing various types of wall coverings in dry and humid places.
<b>Scope</b>	Suitable for installing vinyl-, textile, paper-, non-woven- and fibreglass wallcoverings on concrete and filler finished surfaces and also on painted or otherwise primed structural boards.
<b>Features</b>	Product has been tested to fill the fire security directive in shipbuilding industry according to IMO Resolution MSC. 307(88) and it meets IMO FTPC Part 2 and Part 5 requirements. In an event of fire the product does not spread flames and burns down by itself.



- Waterborne, white PVAc-dispersion adhesive
- Good initial adhesiveness
- M1 classification of building materials
- Suitable also for heavy materials up to 500g/m<sup>2</sup>
- For dry and humid places, protected against mold
- Does not contain any solvents
- Can be applied in gluing devices
- Produced in Finland

**Certificate** EUFI29-21002795-MED

## Technical information

<b>Density</b>	1,02g/ml
<b>Dry contents</b>	Approx. 9 p-%
<b>Storage</b>	12 months in original packages in a dry and cool place. Does not stand storage once opened.
<b>Controversy</b>	3-5 m <sup>2</sup> /l equal to 200 -350 g/m <sup>2</sup> .

## Maximum weight of materials

Approx. 500 g/m<sup>2</sup>. When working with heavy materials a trial attachment is recommended.

<b>Open time</b>	0-15 minutes in circumstances of +23°C, RH 50%.
<b>Working time</b>	5-15 min after application.
<b>Drying time</b>	Tack dry approx. 3-4 h, wallpapers paintable approx. 12 h. Times are estimated and can vary depending on local circumstances.
<b>Circumstances</b>	Temperature shall be over + 15°C, but under + 35°C, relative humidity max. RH 80%.

## Temperature resistance

-50°C - + 70°C. Stands frost when dry.

<b>Transportation</b>	Keep from freezing.
<b>Application</b>	Roller or brush.
<b>Thinning</b>	Porous surfaces can be primed with adhesive diluted max. 30% with water. Otherwise it is not recommended to dilute the adhesive.
<b>Thinner</b>	Water.

## FT-card

<b>Cleaning of tools</b>	With water and soap.
<b>Packages</b>	15 liters.

## Instructions

**Application** Surface to be glued on shall be dry, even, firm and clean of dust and other impurities. Remove old wallpaper and use filler when required. Wash previously painted surfaces with 5059 Fintex Tehopesu or some equivalent cleaner. Porous surfaces can be primed with 30% diluted adhesive or with primer paint. Glossy, painted surfaces must be grinded flat and all dust is removed. Adhesive is applied with a roller or a brush evenly on surface no more than 2-3 strips wide. On porous materials wallpaper is placed immediately on glue. Look closely at the instructions of the wallpaper and act accordingly. Amount of glue required is dependable on material weight and type of surface. When working with heavy materials, (more than 300 g/m<sup>2</sup>), a trial gluing is recommended to define proper amount of glue. Finishing is done with a plastic spatula or a soft brush. Working temperature Possible glue stains must be removed immediately with a damp sponge or cloth before drying of glue. When correctly used the adhesive will not dilute colour or leave stains on wallpapers

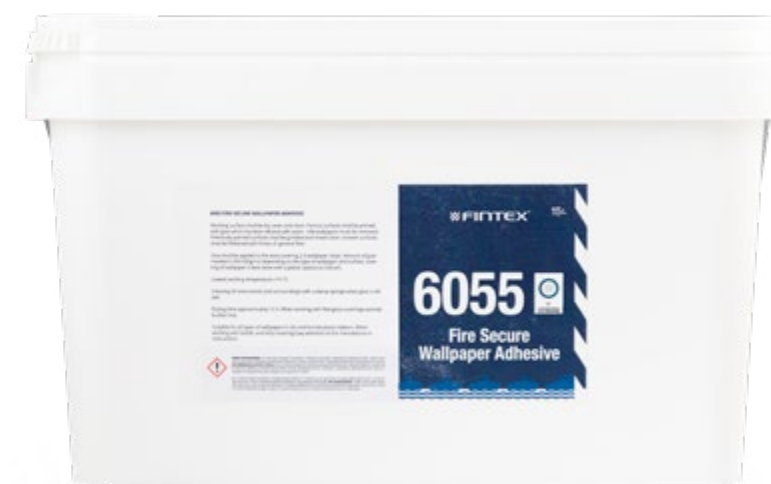
Information in this data sheet is based on test run in laboratories and on field testings. All measurement results are indicative. Because our abilities to have any effect on circumstances or working methods we do stand behind the quality of the product and our high standards. We can not take any consequences affected by misuse of the product.

**Environmental safety** Product must not be let to into sewer systems, waters or ground. Unused fresh adhesive is to delivered to treated as hazardous waste at a disposal center. Empty, dry cans can be recycled handled as standard waste. Dry adhesive can be dealt as ordinary waste.

**Safety** No required warnings. A material safety data sheet is available.

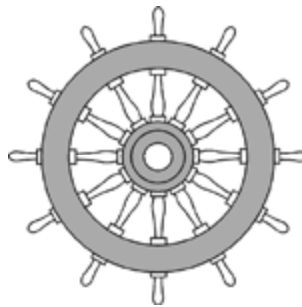
**Flammability** Non-flammable.

**Transportation** Warm transportation, keep from freezing.



# EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that Eurofins Expert Services Ltd did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission implementing regulation (EU) 2020/1170 subject to any conditions in the schedule attached hereto.

## 6055 Fire Secure Wallpaper Adhesive

meet the requirements imposed in IMO 2010 FTP Code, Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5) on

**materials with low flame-spread characteristics and not producing excessive quantities of smoke and toxic products or not giving rise to toxic hazards at elevated temperatures**

and the provisions of Marine Equipment Directive 2014/90/EU, that apply to

**surface materials with low flame-spread characteristics.**

These products have been assigned a U.S. Coast Guard Module B number (**164.112 / EC0809**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2018 signed February 18<sup>th</sup> 2019.

Manufacturer of the product is

**Fintex-Tetrakem Oy**

The Certificate is valid until May 24, 2026 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo May 24, 2021

This document is electronically approved

Tiina Ala-Outinen  
Manager, Building Structures

Heli Välimäki  
Senior Expert

**EUROFINS EXPERT SERVICES OY**

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Manufacturer	Fintex-Tetrakem Oy Mäkirintentie 13 FI-36220 Kangasala
Regulation Item	MED 1/3.18e surface materials with low flame-spread characteristics, adhesives used in the construction of 'A', 'B' & 'C' class divisions.
Product description	6055 Fire Secure Wallpaper Adhesive. Waterborne, PVAc-dispersion adhesive for fixing wallpapers. Colour white. Density of the product 1020 kg/m <sup>3</sup> .
Approved application	On non-combustible, non-metallic substrate, maximum mass per unit area ≤ 330 g/m <sup>2</sup> .  Approved for use as adhesive with low flame spread characteristics.
Technical document	FT Card, 6055 Fire Secure Wallpaper Adhesive data sheet, 21.5.2021.
Test reports	EUFI29-21001995-T1, (May 18, 2021), Eurofins Expert Services Oy.
Test methods	IMO 2010 FTP Code Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5).
Notes	This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

END OF CERTIFICATE



# 6009hs Tetrakem Satin FS Antimicrobial

Product	Flat waterborne antimicrobial acrylate dispersion paint with IMO fire classification. A base white paint and C base milky as fluid, clear paint after drying.
Suitability	Wear-resistant and washable topcoat for indoor walls. Suitable for concrete, plaster and filler surfaces, along with different kinds of wood, chip, plywood and mineral boards, plasterboards, fibreglass wallpapers for painting as well as previously painted ceilings and indoor walls in areas that are exposed to moderate wear or require good hygienic properties as well as a flat gloss level.
Certificate	Certificate NO VTT-C-11764-15-16
Standards	ISO 22196:2011
Properties	Properties of 6009hs Tetrakem Satin FS Special Antimicrobial: <ul style="list-style-type: none"><li>• IMO (MED Marine Equipment Directive)</li><li>• Antimicrobial wall paint</li><li>• Moderately wear-resistant</li><li>• Can be tinted using well-known tinting systems</li><li>• Washable</li><li>• Flat topcoat for indoor use</li><li>• Manufactured in Finland</li></ul>



## Technical data

Dry matter content	App. 55 % by weight
Density	1.35 g/ml
Gloss group	RT6, flat
MT group	MT314
Wear resistance	SFS3455. SFS-EN 13300 Class I, ISO 11998.
Tinting	A and C bases can be tinted.
Storage	36 months in the original package, store in a dry and cool place, with temperatures of +5 to +25 °C.
Coverage	Previously painted surfaces 8–12 m2/l Wood and building board surfaces 6–10 m2/l Concrete, plaster and filler surfaces 5–7 m2/l Fibreglass wallpaper, wallpapers for painting 5–7 m2/l
Dry time	A painted surface is dry to the touch after 30 min and can be recoated after 2 h. Drying times are indicative and they depend on temperature, relative air humidity and ventilation.
Tools	Spray gun, roller or paintbrush
Thinning	Water
Cleaning of tools	Water
Package sizes	A bases 2.7 l, 9 l and 18 l, C bases 2.7 and 9 l tin can
Transport	No VAK classification
EU VOC limit value	Cat. A/d 30 g/l (2010), the ready-to use product's VOC max. 30 g/l

# 6009hs Tetrakem Satin FS Antimicrobial

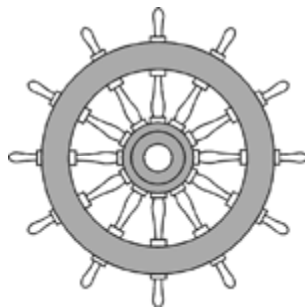


## Directions for use

Application conditions	Temperatures should be over +5 °C, but under + 25 °C, air humidity below 80 %.
Painting instructions	Remove dirt and dust from the surface to be painted. If required, clean the surface with Maalarin tehopesu. Fill holes and cracks with a suitable ready-to-use filler or 1027 Tetrakem Fire Secure mastic adhesive before painting. Apply 1–2 times as required, with either a roller, paintbrush or spray gun. Use appropriate protective gear and protective clothing during the painting job.
Liability clause	The information on the FT card is based on laboratory tests and practical results. All test results are indicative. As we cannot influence the application conditions and working method, we are only responsible for the quality of the paint, which we guarantee is in accordance with high quality requirements and the certificate. We are not liable for any damages caused by the incorrect use of the product against the directions for use, or if used for an inappropriate purpose.
Environmental protection	Any unused liquid paint should be delivered to a collection point for dangerous waste. Empty, dry paint vessels can be delivered to a recycling depot or, if this possibility is not available, to a landfill.
Application safety	The composition of the product does not require any safety labelling. There is a separate safety data sheet available for the product.
Flammability	Non-combustible.

## EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that Eurofins Expert Services Ltd did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission implementing regulation (EU) 2020/1170 subject to any conditions in the schedule attached hereto.

### 6009 Tetrakem Satin FS Antimicrobial

meet the requirements imposed in IMO 2010 FTP Code, Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5) on

**materials with low flame-spread characteristics and not producing excessive quantities of smoke and toxic products or not giving rise to toxic hazards at elevated temperatures**

and the provisions of Marine Equipment Directive 2014/90/EU, that apply to

**surface materials with low flame-spread characteristics.**

These products have been assigned a U.S. Coast Guard Module B number (**164.112 / EC0809**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2018 signed February 18<sup>th</sup> 2019.

Manufacturer of the product is

**Fintex-Tetrakem Oy**

The Certificate is valid until May 24, 2026 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo May 24, 2021

This document is electronically approved

Tiina Ala-Outinen  
Manager, Building Structures

Heli Välimäki  
Senior Expert

Manufacturer	Fintex-Tetrakem Oy Mäkirinteentie 13 FI-36220 Kangasala
Regulation Item	MED 1/3.18b surface materials with low flame-spread characteristics, paints.
Product description	6009 Tetrakem Satin FS Antimicrobial, full-matt waterborne antimicrobial acrylate dispersion paint. All colours.
Approved application	On non-combustible, non-metallic substrates with a density of 712 kg/m <sup>3</sup> or higher and a thickness of 25 mm or greater. The quantity of dry paint max. 0,15 kg/m <sup>2</sup> , corresponding to wet film thickness max. 300 µm (2x150 µm).  Approved for use as paint with low flame spread characteristics.
Technical document	FT Card, 6009 Tetrakem Satin FS Antimicrobial data sheet, 22.2.2017.
Test reports	Test Report VTT-S-04344-16, 14 October 2016, VTT Expert Services Ltd.
Test methods	IMO 2010 FTP Code Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5).
Notes	This certificate replaces the previous EC Type-Examination Certificates (B-module) VTT-C-11764-15-16.  This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.  Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.  The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.
END OF CERTIFICATE	



# 6011 Tetrakem FS Ceiling Plus

Product	Flat waterborne acrylate dispersion paint with IMO fire classification. Extremely good opacity.
Suitability	As a primer and topcoat for ceilings with fire classification and as a primer on indoor wall surfaces. Suitable for use on concrete, plaster and filler surfaces, along with different kinds of wood, chip, plywood and mineral boards, plasterboards, fibreglass wallpapers for painting as well as previously painted ceilings and indoor walls.
Certificate	Certificate NO VTT-C-11764-15-16
Properties	Properties of 6011 Tetrakem FS Ceiling Plus paint: <ul style="list-style-type: none"><li>• IMO (MED Marine Equipment Directive)</li><li>• Extremely good opacity, one application is usually sufficient</li><li>• Solvent-free paint</li><li>• Does not yellow with age</li><li>• Suitable on ceiling and wall surfaces</li><li>• AP base can be tinted</li><li>• Manufactured in Finland</li></ul>



## Technical data

Dry matter content	App. 58 %
Density	1.40 g/ml
Gloss group	RT6, flat
MT group	2012 MT211, 311 and 2001 MT 30
Wear resistance	Fair, withstands over 2,000 scrubblings. SFS3455.
Tinting	Using common indoor paint colour charts. The AP base paint can be tinted in light shades.
Storage	36 months in the original package, store in a dry and cool place, with temperatures of +5 to +25 °C.
Coverage	Previously painted surfaces 8–12 m²/l Wood and building board surfaces 6–10 m²/l Concrete, plaster and filler surfaces 5–7 m²/l Fibreglass wallpaper, wallpapers for painting 5–7 m²/l
Dry time	A painted surface is dry to the touch after 30 min and can be recoated after 1–2 h. Drying times are indicative and they depend on temperature, relative air humidity and ventilation.
Tools	Spray gun, roller or paintbrush
Thinning	Water
Cleaning of tools	Water
Package sizes	A bases 2.7 l, 9 l and 18 l, C bases 2.7 and 9 l tin can
Transport	No VAK classification
EU VOC limit value	Cat. A/d 30 g/l (2010), the ready-to use product's VOC max. 30 g/l

# 6011 Tetrakem FS Ceiling Plus

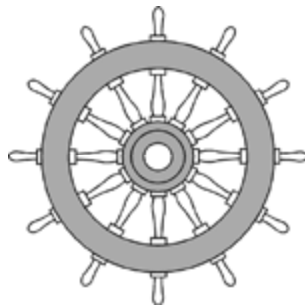


## Directions for use

Application conditions	Temperatures should be over +5 °C, but under + 25 °C, air humidity below 80 %.
Painting instructions	Remove dirt and dust from the surface to be painted. If required, clean the surface with Maalarin tehopesu. Fill holes and cracks with a suitable ready-to-use filler or 1027 Tetrakem Fire Secure mastic adhesive before painting. Apply 1–2 times as required, with either a roller, paintbrush or spray gun. Use appropriate protective gear and protective clothing during the painting job.
Liability clause	The information on the FT card is based on laboratory tests and practical results. All test results are indicative. As we cannot influence the application conditions and working method, we are only responsible for the quality of the paint, which we guarantee is in accordance with high quality requirements and the certificate. We are not liable for any damages caused by the incorrect use of the product against the directions for use, or if used for an inappropriate purpose.
Environmental protection	Any unused liquid paint should be delivered to a collection point for dangerous waste. Empty, dry paint vessels can be delivered to a recycling depot or, if this possibility is not available, to a landfill.
Application safety	The composition of the product does not require any safety labelling. There is a separate safety data sheet available for the product.
Flammability	Non-combustible.

# EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that Eurofins Expert Services Ltd did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission implementing regulation (EU) 2020/1170 subject to any conditions in the schedule attached hereto.

## 6011 Tetrakem FS Ceiling Plus

meet the requirements imposed in IMO 2010 FTP Code, Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5) on

**materials with low flame-spread characteristics and not producing excessive quantities of smoke and toxic products or not giving rise to toxic hazards at elevated temperatures**

and the provisions of Marine Equipment Directive 2014/90/EU, that apply to

**surface materials with low flame-spread characteristics.**

These products have been assigned a U.S. Coast Guard Module B number (**164.112 / EC0809**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2018 signed February 18<sup>th</sup> 2019.

Manufacturer of the product is

**Fintex-Tetrakem Oy**

The Certificate is valid until May 24, 2026 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo May 24, 2021

This document is electronically approved

Tiina Ala-Outinen  
Manager, Building Structures

Heli Välimäki  
Senior Expert

**EUROFINS EXPERT SERVICES OY**

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Manufacturer	Fintex-Tetrakem Oy Mäkirinteentie 13 FI-36220 Kangasala
Regulation Item	MED 1/3.18b surface materials with low flame-spread characteristics, paints.
Product description	6011 Tetrakem FS Ceiling Plus, full-matt waterborne acrylate dispersion paint. All colours.
Approved application	On non-combustible, non-metallic substrates with a density of 712 kg/m <sup>3</sup> or higher and a thickness of 25 mm or greater. The quantity of dry paint max. 0,15 kg/m <sup>2</sup> , corresponding to wet film thickness max. 300 µm (2x150 µm).  Approved for use as paint with low flame spread characteristics.
Technical document	FT Card, 6011 Tetrakem FS Ceiling Plus data sheet, 22.2.2017.
Test reports	Test Report VTT-S-04344-16, 14 October 2016, VTT Expert Services Ltd.
Test methods	IMO 2010 FTP Code Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5).
Notes	This certificate replaces the previous EC Type-Examination Certificates (B-module) VTT-C-11764-15-16.  This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.  Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.  The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

END OF CERTIFICATE



# 6025hs KSM25 FS Special Antimicrobial

Product	Semi-matte waterborne antimicrobial acrylate dispersion paint with IMO fire classification. A base white paint and C base milky as fluid, clear paint after drying.
Suitability	An extremely wear-resistant and moisture-proof washable topcoat for indoor walls. Suitable for use on concrete, plaster and filler surfaces, along with different kinds of wood, chip, plywood and mineral boards, plasterboards, fibreglass wallpapers for painting as well as previously painted ceilings and indoor walls in areas that are exposed to hard or excessive wear or that require good hygienic properties.
Certificate	Certificate NO VTT-C-11764-15-16
Standards	ISO 22196:2011
Properties	Properties of 6025hs FS Special Antimicrobial: <ul style="list-style-type: none"><li>• IMO (MED Marine Equipment Directive)</li><li>• Antimicrobial wall paint</li><li>• Resistant to hard or excessive wear</li><li>• Can be tinted using well-known tinting systems</li><li>• Washable and moisture-proof</li><li>• Semi-matte topcoat for indoor use</li><li>• Manufactured in Finland</li><li>• M1 product</li></ul>



## Technical data

Dry matter content	App. 52 % by weight
Density	1.30 g/ml
Gloss group	RT6, half-matte
MT group	MT314
Wear resistance	Very good, withstands over 20,000 scrubblings. SFS3455. SFS-EN 13300 Class I, ISO 11998.
Tinting	A and C bases can be tinted.
Storage	36 months in the original package, store in a dry and cool place, with temperatures of +5 to +25 °C.
Coverage	Previously painted surfaces 8–12 m²/l Wood and building board surfaces 6–10 m²/l Concrete, plaster and filler surfaces 5–7 m²/l Fibreglass wallpaper, wallpapers for painting 5–7 m²/l
Dry time	A painted surface is dry to the touch after 30 min and can be recoated after 2 h. Drying times are indicative and they depend on temperature, relative air humidity and ventilation.
Tools	Spray gun, roller or paintbrush
Thinning	Water
Cleaning of tools	Water
Package sizes	A bases 2.7 l, 9 l and 18 l, C bases 2.7 and 9 l tin can
Transport	No VAK classification
EU VOC limit value	Cat. A/d 30 g/l (2010), the ready-to use product's VOC max. 30 g/l

# 6025hs KSM25 FS Special Antimicrobial

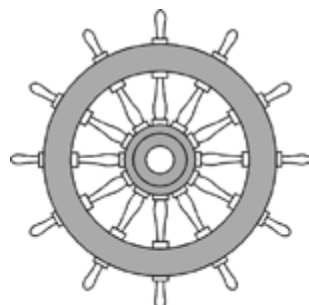


## Directions for use

Application conditions	Temperatures should be over +5 °C, but under + 25 °C, air humidity below 80 %.
Painting instructions	Remove dirt and dust from the surface to be painted. If required, clean the surface with Maalarin tehopesu. Fill holes and cracks with a suitable ready-to-use filler or 1027 Tetrakem Fire Secure mastic adhesive before painting. Apply 1-2 times as required, with either a roller, paintbrush or spray gun. Use appropriate protective gear and protective clothing during the painting job.
Liability clause	The information on the FT card is based on laboratory tests and practical results. All test results are indicative. As we cannot influence the application conditions and working method, we are only responsible for the quality of the paint, which we guarantee is in accordance with high quality requirements and the certificate. We are not liable for any damages caused by the incorrect use of the product against the directions for use, or if used for an inappropriate purpose.
Environmental protection	Any unused liquid paint should be delivered to a collection point for dangerous waste. Empty, dry paint vessels can be delivered to a recycling depot or, if this possibility is not available, to a landfill.
Application safety	The composition of the product does not require any safety labelling. There is a separate safety data sheet available for the product.
Flammability	Non-combustible.

## EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that Eurofins Expert Services Ltd did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission implementing regulation (EU) 2020/1170 subject to any conditions in the schedule attached hereto.

### 6025 Tetrakem KSM25 FS Special Antimicrobial

meet the requirements imposed in IMO 2010 FTP Code, Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5) on

**materials with low flame-spread characteristics and not producing excessive quantities of smoke and toxic products or not giving rise to toxic hazards at elevated temperatures**

and the provisions of Marine Equipment Directive 2014/90/EU, that apply to

**surface materials with low flame-spread characteristics.**

These products have been assigned a U.S. Coast Guard Module B number (**164.112 / EC0809**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2018 signed February 18<sup>th</sup> 2019.

Manufacturer of the product is

**Fintex-Tetrakem Oy**

The Certificate is valid until May 24, 2026 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo May 24, 2021

This document is electronically approved

Tiina Ala-Outinen  
Manager, Building Structures

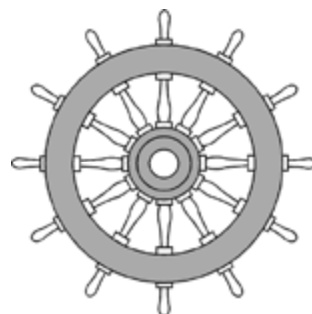
Heli Välimäki  
Senior Expert

Manufacturer	Fintex-Tetrakem Oy Mäkirinteentie 13 FI-36220 Kangasala
Regulation Item	MED 1/3.18b surface materials with low flame-spread characteristics, paints.
Product description	6025 Tetrakem KSM25 FS Special Antimicrobial, semi-matt waterborne antimicrobial dispersion paint. All colours.
Approved application	On non-combustible, non-metallic substrates with a density of 712 kg/m <sup>3</sup> or higher and a thickness of 25 mm or greater. The quantity of dry paint max. 0,15 kg/m <sup>2</sup> , corresponding to wet film thickness max. 300 µm (2x150 µm).  Approved for use as paint with low flame spread characteristics.
Technical document	FT Card, 6025 Tetrakem KSM25 FS Special Antimicrobial data sheet, 22.2.2017.
Test reports	Test Report VTT-S-04344-16, 14 October 2016, VTT Expert Services Ltd.
Test methods	IMO 2010 FTP Code Annex 1 Part 2 and Part 5 (IMO Resolution MSC.307(88) Annex 1 Part 2 and Part 5).
Notes	This certificate replaces the previous EC Type-Examination Certificates (B-module) VTT-C-11764-15-16.  This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.  Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.  The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.
END OF CERTIFICATE	



## QUALITY-SYSTEM APPROVAL

according to Marine Equipment Directive



NOTIFIED BODY 0809

This is to certify that the manufacturer

**Fintex-Tetrakem Oy**

operates an approved quality system for

**materials with low flame-spread characteristics and not producing excessive quantities of smoke and toxic products or not giving rise to toxic hazards at elevated temperatures.**

The examined quality system meets the provisions of The Marine Equipment Directive 2014/90/EU, that apply to

**production-quality assurance (module D).**

The manufacturer is allowed to affix the U.S. Coast Guard approval number (according to this certificate) as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27, 2004 and amended by Decision No.1/2018 signed February 18<sup>th</sup> 2019.

The certificate was issued on May 24, 2021

The Certificate is valid until May 24, 2024 unless cancelled or revoked.

Espoo Month 24, 2021

This document is electronically approved

Tiina Ala-Outinen  
Manager, Building Structures

Heli Välimäki  
Senior Expert

Manufacturer  
Fintex-Tetrakem Oy  
Mäkirinteentie 13  
FI-36220 Kangasala  
Finland

Regulation Item  
MED /3.18b, surface materials with low flame-spread characteristics, paint systems.  
MED /3.18e, surface materials with low flame-spread characteristics, adhesives used in the construction of 'A', 'B' and 'C' divisions.

Products and Type Examination Certificates

Products and Type Examination Certificates are listed in Table 1.

Table 1. Products concerned by the production-quality assurance.

Product designation	EC Type- Examination Certificate no.	U.S.Coast Guard approval number	Expiry Date
Fire Secure Mastic Adhesive 1027	EUFI29-21002793-MED	164.112/ EC0809 / EUFI29-21002793-MED	May 24, 2026
Fire Secure Mastic 1050	EUFI29-21002794-MED	164.112 / EC0809 / EUFI29-21002794-MED	May 24, 2026
6055 Fire Secure Wallpaper Adhesive	EUFI29-21002795-MED	164.112 / EC0809 / EUFI29-21002795-MED	May 24, 2026
6009 Tetrakem Satin FS Antimicrobial	EUFI29-21002804-MED	164.112 / EC0809 / EUFI29-21002804-MED	May 24, 2026
6011 Tetrakem FS Ceiling Plus	EUFI29-21002805-MED	164.112 / EC0809 / EUFI29-21002805-MED	May 24, 2026
6025 Tetrakem KSM25 FS Special Antimicrobial	EUFI29-21002806-MED	164.112 / EC0809 / EUFI29-21002806-MED	May 24, 2026
6065R Neofix contact adhesive	EUFI29-19005465-MED	164.112 / EC0809 / EUFI29-19005465-MED	November 3, 2024

Quality-system assessment reports

Remote audit of the plant on May 4, 2021. Inspection report of Eurofins Expert Services Ltd. No. EUFI29-210000555-I2, dated May 7, 2021.

Conditions

The manufacturer must fulfil the obligations arising out of the approved quality system.

The manufacturer must keep the notified body informed of any updating of the quality system.

This approval is subject to an annual renewal audit

Notes

This certificate authorizes the manufacturer or his authorized representative established within the Community in conjunction with the EC Type Examination (Module B) Certificate of the equipment listed in the appendix of this certificate to affix the "Mark of Conformity" (wheelmark).

This certificate loses its validity if the manufacturer makes any changes or modifications to the approved quality system, which have not been notified to, and agreed with the notified body named in this certificate and after lapse of time, withdrawal or revocation of the EC Type Examination (Module B) Certificate.

END OF CERTIFICATE





Marine &amp; Offshore

Certificate number: 24618/C0 BV  
File number: ACI 1300/244/001  
Product code: 5230H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*  
**Fintex-Tetrakem Oy**  
Kangasala - FINLAND

*for the type of product*  
**SURFACE LININGS**  
Fire Secure Mastic Adhesive 1027, Fire Secure Adhesive 1050

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships Part C, Chapter 4  
SOLAS 74 Convention, as amended, Reg. II-2/3, II-2/5  
IMO Resolution MSC.36(63) (1994 HSC Code) 7  
IMO Resolution MSC.97(73) (2000 HSC Code) 7  
IMO Res MSC.307(88) (2010 FTP Code)  
IMO MSC/Circ.1120

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 18 Oct 2026**

For Bureau Veritas Marine & Offshore,  
At BV TURKU (ABO), on 18 Oct 2021,  
Miika KOKKO



This certificate is recognized by Transport Canada

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

Certificate number: 24618/C0 BV

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

Fire Secure Mastic Adhesive 1027 is an acrylic-based solvent free mastic adhesive (density 1.4 g/ml).  
Fire Secure Adhesive 1050 is an acrylic-based solvent free adhesive (density 1.4 g/ml).

Note : both products are with same composition, only the viscosity is slightly different, depending on the application mode (sealant gun, roller, notched trowel).  
The product has been tested applied in 4 mm thick strips (with notched trowel) and a total width of 60 mm, on a 25 +/- 2 mm thick non-combustible calcium silicate substrate (density of 950 +/- 100 kg/m³) and on a 0.6 mm thick steel sheet.

### 2. DOCUMENTS AND DRAWINGS:

Technical data sheet dated 25/05/2021.

### 3. TEST REPORTS:

3.1 - Test on calcium silicate: test report N° EUFI29-21001995-T5 dated 25/08/2021 (test date: 06/05/2021), as per IMO 2010 FTP Code, Annex 1, Part 5 from EUROFINS Expert Services, Finland.

3.2 - Test on steel: test report N° EUFI29-21001995-T3 dated 18/05/2021, as per IMO 2010 FTP Code, Annex 1, Part 5 from EUROFINS Expert Services, Finland.

### 4. APPLICATION / LIMITATION:

4.1 - Acceptable for use on any metallic substrate having a thickness of at least 0.45 mm.  
Acceptable for use on any non-combustible and non-metallic substrate having:  
- a minimum density of 713 kg/m³ with a thickness equal to 25 mm  
OR  
- a minimum density of 950 +/- 100 kg/m³ with a thickness greater than 25 mm.

4.2 - The product should be applied with a thickness of maximum 4 mm and as a single solid strip (maximum 30 mm wide) or as multiple stripes when notched trowel is used (maximum 60 mm wide). Distance between stripes (non-combustible substrate) is to be not less than 50 mm.

4.3 - Approved material is considered as having low flame spread characteristics (as per IMO 2010 FTP Code Part 5).

4.4 - In application of FTP Code 2010 Annex 2 § 2.2, the products are expected to satisfy the requirement of smoke & toxicity without further testing

4.5 - The fitting aboard to be the same as used for the test.

### 5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The Fire Secure Mastic Adhesive 1027 and Fire Secure Adhesive 1050 are to be supplied by Fintex-Tetrakem Oy in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - Fintex-Tetrakem Oy has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - Fintex-Tetrakem Oy has declared to Bureau Veritas the following production site(s):

Fintex-Tetrakem Oy  
Mäkirintentie 13  
FI 36220 Kangasala  
FINLAND

### 6. MARKING OF PRODUCT:

The product or packing is to be marked with manufacturer name, type, designation and fire-technical rating.

The electronic version is available at: <http://www.veristarpm.com/veristamb/jsp/viewPublicPdfType.jsp?id=ztzbnm1knh>  
BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)



**7. OTHERS:**

7.1 - It is the Fintex-Tetrakem Oy's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate n° 24618/B0 BV issued on 29/07/2016 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*

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## **FINTEX-TETRAKEM OY**

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