

Siparila Oy  
Vaajakoski

## **Teknos FR fire-retardant paint**

### **Painted massive wood panels manufactured and fitted as follows:**

#### **Option 1:**

##### Product:

- Massive wood spruce panel with a finely sawn surface, nominal thickness 19-57 mm
  - Primer: Teknosafe 2407, application 3-sides (front surface and sides) at least 315 g/m<sup>2</sup> wet (unthinned). On planed back surface application at least 250 g/m<sup>2</sup> wet (unthinned). If the back surface is a finely sawn surface, then application at least 315 g/m<sup>2</sup> wet (unthinned).
  - Top coat: Teknos Nordica EKO 3330-03 water-thinned paint. Application no more than 165 g/m<sup>2</sup> wet (unthinned) on front surface and sides. If the back surface is top-coated, then on planed sawn back surface application no more than 60 g/m<sup>2</sup> wet (unthinned), on a finely sawn back surface application no more than 165 g/m<sup>2</sup> wet (unthinned)
- Wood protection agent Teknol Aqua 1410-01 (application no more than 120 g/m<sup>2</sup>) acceptable under Teknosafe 2407.

##### Base of the fitted panel:

- Board conformant with Euro-classes A1 or A2-s1,d0 at least 12 mm thick and with a density of at least 525 kg/m<sup>3</sup>.

##### Fastening:

- Panel fastened mechanically onto the base using supporting rails. Air gap caused by supporting rails maximum 44 mm.

#### **Option 2:**

- Massive wood spruce panel with a planed sawn surface, nominal thickness 19 mm
- Primer: Teknosafe 2407, application 3-sides (front surface and sides) at least 315 g/m<sup>2</sup> wet (unthinned). On planed back surface application at least 250 g/m<sup>2</sup> wet (unthinned).
- Top coat: Teknos Nordica EKO 3330-03 water-thinned paint. Application no more than 165 g/m<sup>2</sup> wet (unthinned) on front surface and sides. If the back surface is top-coated, then on planed sawn back surface application no more than 60 g/m<sup>2</sup> wet (unthinned) (the amount of Teknosafe 250-315 g/m<sup>2</sup>) or no more than 165 g/m<sup>2</sup> wet (unthinned) (the amount of Teknosafe at least 315 g/m<sup>2</sup>)

##### Base of the fitted panel:

- Board conformant with Euro-classes A1 or A2-s1,d0 at least 12 mm thick and with a density of at least 525 kg/m<sup>3</sup>.

##### Fastening:

- Panel fastened mechanically onto the base using supporting rails. Air gap caused by supporting rails maximum 44 mm.

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**Option 3:**

- Massive wood spruce panel with a planed sawn surface, nominal thickness 18 mm
- Primer: Teknosafe 2407, application at least 250 g/m<sup>2</sup> wet (unthinned) on all sides.
- Top coat: Teknos Oy waterborne acrylic industrial system, application no more than 60 g/m<sup>2</sup> wet (unthinned)

Base of the fitted panel:

- Plaster board (with paper surface) or similar board conformant with Euro-classes A1 or A2 at least 12 mm thick and with a density of at least 525 kg/m<sup>3</sup>.

Fastening:

- Panel fastened mechanically onto the base using supporting rails. Air gap caused by supporting rails maximum 44 mm.

**Fire safety class of options 1-3: B-s1, d0**

(Classification reports: PX18030-2; BMT/RFP/F14055/05; BMT/RFP/F14056/03)

## **Teknos FR fire-retardant paint**

### **Painted massive wood panels manufactured and fitted as follows:**

#### Product:

- Solid glued spruce panel with finely sawn surface,
  - Glued from lamellas and glueline downright from the surface (gluelam board)
  - Nominal thickness 25-57 mm
  - Maximum total width of the panel made by glueing 322 mm
  - The minimum density of ready-made panel 437 kg/m<sup>3</sup> and the minimum weight for m<sup>2</sup> 11.3 kg/m<sup>2</sup>
- Primer: Teknosafe 2407, application 3-sides (front surface and sides) at least 315 g/m<sup>2</sup> wet (unthinned). On planed back surface application at least 225 g/m<sup>2</sup> wet (unthinned).
- Top coat: Teknos Nordica EKO 3330-03 water-thinned paint. Application no more than 165 g/m<sup>2</sup> wet (unthinned) on front surface and sides.
  
- Wood protection agent Teknol Aqua 1410-01 (application no more than 120 g/m<sup>2</sup>) acceptable under Teknosafe 2407.

#### Base of the fitted panel:

- Board conformant with Euro-classes A1 or A2-s1,d0 at least 12 mm thick and with a density of at least 525 kg/m<sup>3</sup>.

#### Fastening:

- Panel fastened mechanically onto the base using supporting rails. Air gap caused by supporting rails maximum 44 mm.

### **Product's fire safety class: B-s1, d0**

(Classification report BMT/RFP/F15069/03)

## **Teknos FR fire-retardant paint or lacquer**

### **Lacquered massive wood panels manufactured and fitted as follows:**

#### Product:

- Wooden raw-material
  - The fire safety class of the panel at least D-s2,d0
  - The density of the panel at least 338 kg/m<sup>3</sup>
  - The thickness of the panel at least 8.0 mm
- Primer: Teknosafe 2467, application at least 180 g/m<sup>2</sup> wet (unthinned)
- Top coat: Teknoclear Aqua 1331 water-based lacquer.  
Application no more than 110g/m<sup>2</sup> wet (unthinned)

#### Base of the fitted panel:

- Wood-based board (fire safety class at least D-s2,d0) or other board conformant with Euro-classes A1 or A2-s1,d0
  - The density of material at least 510 kg/m<sup>3</sup>
  - The thickness at least 10.0 mm

#### Fastening:

- Panel fastened directly mechanically with screws to the base without supporting rails

### **Product's fire safety class: B-s1, d0**

(Classification report BMT/RFP/F15037/03)

## **MultiProtect fire-retardant paint or surface treatment, fire-retardant product MP FR Exterior**

**Massive wood panels surface treated industrially and fitted as follows:**

### **On both options 1-2:**

- Wood density according to natural variation
- No other coating on top of the fire retardant surface
- MP FR Exterior can be tinted by the fire-retardant manufacturer

Base of the fitted panel:

- Base board mandatory. All base boards that comply with the building code are acceptable, but Class A board is recommended.

### **Option 1:**

Product:

- Massive wood spruce panel, thickness 23 mm or more
- Application at least 350 g/m<sup>2</sup> (unthinned) wet in total on all sides

Fastening:

- Panel fitted with supporting rails and fastened to the base or fastened to the base directly without supporting rails. Without supporting rails the option 2 is also possible.

### **Option 2:**

Product:

- Massive wood spruce or pine panel, thickness 22 mm or more
- Application at least 300 g/m<sup>2</sup> (unthinned) wet in total on all sides.

Fastening:

- Panel fastened directly to the base without supporting rails

**Product's fire safety class: B-s1, d0**

(Classification reports: K11/2014; K02/2014)

## **MultiProtect fire-retardant paint or surface treatment, fire-retardant product MP FR Ultra**

### **Massive wood panels surface treated industrially and fitted as follows:**

#### **On all options 1-3:**

- Wood density according to natural variation
- No other coating on top of the fire retardant surface

#### Base of the fitted panel:

- Base board mandatory. All base boards that comply with the building code are acceptable, but Class A board is recommended.

#### **Option 1:**

##### Product:

- Massive wood spruce panel, thickness 14 mm or more (minimum thickness of profile at least 9 mm)
- Application at least 310 g/m<sup>2</sup> (unthinned) wet in total on all sides

##### Fastening:

- Panel fitted with supporting rails and fastened to the base or fastened to the base directly without supporting rails. Without supporting rails the option 3 is possible, when the thickness of the panel is 22mm or more.

#### **Option 2:**

##### Product:

- Massive wood larch panel, thickness 22 mm or more
- Application at least 350 g/m<sup>2</sup> (unthinned) wet in total on all sides

##### Fastening:

- Panel fitted with supporting rails and fastened to the base or fastened to the base directly without supporting rails

#### **Option 3:**

##### Product:

- Massive wood spruce, pine or birch panel, thickness 22 mm or more
- Application at least 300 g/m<sup>2</sup> (unthinned) wet in total on all sides

##### Fastening:

- Panel fastened directly to the base without supporting rails

### **Product's fire safety class: B-s1, d0**

(Classification reports: K01/2015; K10/2014; K01/2014)

**Nordtreat fire-retardant paint or surface treatment,  
fire-retardant products Multiprotect Neutra or NT Neutra,**

**Massive wood panels surface treated industrially and fitted as follows:**

- Wood density according to natural variation
- No other coating on top of the fire retardant surface
- Fire-retardant transparent liquid

Base of the fitted panel:

- Base board mandatory. The fire safety class of base board A1-s1-d0 or A2-s1-d0

Product:

- Massive wood spruce panel, thickness at least 18 mm
- Application at least 350 g/m<sup>2</sup> (unthinned) wet in total on all sides

Fastening:

- Panel or cladding fastened to the base with or without supporting
- Panel or cladding in vertical or horizontal orientation
- With vertical or horizontal joints
- Fixed with metal fixings

**Product's fire safety class: B-s1, d0**

(Classification report: K05/2016)

## **Nordtreat fire-retardant paint or surface treatment, fire-retardant products Multiprotect Deco or NT Deco**

### **Massive wood panels surface treated industrially and fitted as follows:**

- Wood density according to natural variation
- No other coating on top of the fire retardant surface
- The fire-retardant can be tinted by the manufacturer (all tones), liquid

#### Base of the fitted panel:

- Base board mandatory. The fire safety class of base board A1-s1-d0 or A2-s1-d0

#### Product:

- Massive wood spruce panel, thickness at least 20 mm
- Application at least 350 g/m<sup>2</sup> wet in total on all sides

#### Fastening:

- Panel or cladding fastened to the base with or without supporting
- Panel or cladding in vertical or horizontal orientation
- With vertical or horizontal joints
- Fixed with metal fixings

### **Product's fire safety class: B-s1, d0**

(Classification reports: K21/2016 and K21-1/2016)

## **Tikkurila fire-retardant paint**

### **Painted massive wood panels manufactured and fitted as follows:**

#### Product:

- Massive wood spruce panels with tongue-groove joint
  - Thickness of panels at least 20 mm
  - Minimum thickness of panelling at least 12 mm
  - Wood density according to natural variation
- Primer: Tikkurila Fontefire WF -paint: application 3-sides (front surface and sides) at least 350 g/m<sup>2</sup> wet (unthinned) (lisäohentamattomana). On planed back surface application at least 175 g/m<sup>2</sup> wet (unthinned).
- Top coat Tikkurila Ultra Pro -paint. Application no more than 100 g/m<sup>2</sup> wet (unthinned) on front surface and sides. The color of paint is white.

#### Base of the fitted panel:

- The fire safety class of base board Euroclasses A1-s1-d0 or A2-s1-d0

#### Fastening:

- Panelling fastened mechanically onto the base using supporting rails from spruce (rails can be with no fire-retardant painting) or fastened directly to the base without supporting rails.

### **Product's fire safety class: B-s1, d0**

(Classification report: K22/2016)