

# TEKNOSAFE FLAME PROTECT 2458-00

## Fire-retardant topcoat

TEKNOSAFE FLAME PROTECT 2458-00 is a water-borne fire-retardant topcoat for interior solid wood panelling and cladding, and wood-based panels.



Substrate: Solid wood or wood-based panels with thickness > 8 mm and density  $\geq 338 \text{ kg/m}^3$  when taken in conjunction with the relevant fire classification report.

Used as an industrial fire-retardant topcoat as part of a system called Teknos FR Panel with TEKNOSAFE FLAME GUARD 2457-10 to improve "reaction to fire" (EN 13501-1) of interior wooden surfaces - see <https://www.teknos.com/products/teknosafe-flame-protect-2458-00/>.

Before using the product, Teknos should be contacted to check the suitability of the product for the object in question.

Fire-retardant performance has been classified B-s1, d0 according to EN 13501-1 (SBI test) as part of the FR panel system. Durability classes of reaction to fire performance, of fire-retardant wood-based product in end use applications according to EN 16755 - DRF class INT1 and INT2.



## TECHNICAL DATA

<b>Certificates, approvals and classification</b>	A+ Émissions l'air intérieur
<b>Fields of application</b>	Panels
<b>Recommended substrate</b>	Wood
<b>Solids</b>	37 $\pm$ 2% by volume 45 $\pm$ 2% by weight
<b>Volatile organic compound (VOC)</b>	Approx. 1 g/l (DIRECTIVE 2010/75/EU) The VOC value provided is the average value for factory produced products, and consequently it will be subject to variations between individual products covered by this Technical Data Sheet.
<b>Theoretical spreading rate</b>	The classification is made with $\geq 250 \text{ g/m}^2$ TEKNOSAFE 2457-10 with or without $\leq 100 \text{ g/m}^2$ TEKNOSAFE FLAME PROTECT 2458-00.
<b>Colours</b>	Base 1 and Base 3 (all opaque colours). All tinting recipes are developed by Teknos Shade service.
<b>Tinting system</b>	Teknocolour
<b>Gloss (60°)</b>	Matt

<b>Thinner</b>	Water.
<b>Density</b>	Approx. 1.1-1.2 g/ml
<b>Storage</b>	Must not freeze. The best storage temperature is +10°C - +25°C.
<b>Packaging</b>	Available in a range of standard pack sizes.

## DIRECTION FOR USE

**Surface preparation** The wood must be free from wood dust and contamination. The moisture content of the wood should be approx. 10% and should not exceed 12%.

**Application method** Airless spraying, Air-assisted airless spraying  
Apply industrially.

<b>Application</b>	<b>Nozzle</b>	<b>Pressure</b>	<b>Air support</b>
	Airless flat 0.28 mm	120-150 bar	
	Air-assisted airless flat 0.28 mm	80-100 bar	1.0-1.5 bar

**Application conditions** The temperature of the air, the surface and the paint shall be above +10°C and the relative humidity of the air below 80% during the time of application and drying. The best result is achieved when the temperature of the air is between +23°C and +38°C, the relative humidity of the air is 50-70% and the ventilation good.

Stir the paint thoroughly before use, preferably using mechanical stirring.

After on-site cutting the specified loading rate must be re-instated.

For all coated solid wood or wood-based panels, a non-marking protective layer of minimum 1.5 mm thickness (e.g., polyethylene film) is recommended to be used between coated surfaces.

<b>Drying time</b>	+23°C / 50% RH
<b>- dry to handle</b>	2-3 h
<b>- through dry</b>	Min. 4 h

Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.  
When using accelerated drying ask for the instructions from the manufacturer.

**Cleaning** Water.

## HEALTH AND SAFETY

**Safety and precaution measures** See safety data sheet.

**Teknos Group Oy Takkatie 3, P.O.Box 107 FI-00371 Helsinki, Finland Tel. +358 9 506 091**

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