

TEKNOSAFE FLAME GUARD 2457-10

Intumescent primer and paint

TEKNOSAFE FLAME GUARD 2457-10 is a water-borne intumescent primer and paint 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 primer or paint as part of a system called Teknos FR Panel with TEKNOSAFE FLAME PROTECT 2458-00 to improve "reaction to fire" (EN 13501-1) of interior wooden surfaces see <https://www.teknos.com/products/teknosafe-flame-guard-2457-10/>.

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 according to B-s1, d0 EN 13501-1 (SBI test). 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

Certificates, approvals and classification	A+ Émissions l'air intérieur
Fields of application	Panels
Recommended substrate	Wood
Solids	56 \pm 2% by volume 70 \pm 2% by weight
Volatile organic compound (VOC)	Approx. 6 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.
Theoretical spreading rate	The core classification is made with $\geq 250 \text{ g/m}^2$ TEKNOSAFE FLAME GUARD 2457-10 with or without $\leq 100 \text{ g/m}^2$ TEKNOSAFE FLAME PROTECT 2458-00 or in conjunction with additional relevant fire classification reports.
Colours	Base 1 or Base 3 (all opaque colours). All tinting recipes are developed by Teknos Shade service.
Tinting system	Teknocolour

Gloss (60°)	Matt
Thinner	Water.
Density	Approx. 1.3-1.5 g/ml depending on colour.
Storage	Must not freeze. The best storage temperature is +10°C - +25°C.
Packaging	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.

Application	Nozzle	Pressure	Air support
	Airless flat 0.28 mm	120-150 bar	
	Air-assisted airless flat 0.28 mm	80-120 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.

Drying time	+23°C / 50% RH
- touch dry	20-30 min.
- overcoatable	After at least 4 h. TEKNOSAFE FLAME GUARD 2457-10 must be through-dry before application of the topcoat.
	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.

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