

TECHNICAL DATA SHEET
1 05.01.2021

TEKNOSAFE FLAME GUARD 2457-10

Intumescent primer and paint

TYPE	TEKNOSAFE FLAME GUARD 2457-10 is a water borne intumescent primer and paint for interior solid wood panelling and cladding, and wood-based panels.
USE	Used as an industrial primer or paint to improve "reaction to fire" (EN 13501-1) of interior wooden surfaces. Before using the product, Teknos should be contacted to check the suitability of the product for the object in question.
SPECIAL PROPERTIES	Fire retardant performance have been classified B-s1, d0 according to EN 13501-1 (SBI test) in certain systems.

TECHNICAL DATA

Density	Approx. 1.3-1.5 g/ml depending on colour
Solids	56 ±2% by volume 70 ±2% by weight
Volatile organic compound (VOC)	See Safety Data Sheet.
Substrate	Solid wood or wood-based panels with thickness > 8 mm and density ≥ 338 kg/m ³ when taken in conjunction with the relevant fire classification report.
Classified treatment systems	To stay within the classifications obtained the treatment systems must be: - TEKNOSAFE FLAME GUARD 2457-10 with or without industrially applied topcoat TEKNOCOAT AQUA 1864-62 or UVILUX 651-14120.
Theoretical spreading rate	The classification is made with ≥ 250 g/m ² TEKNOSAFE FLAME GUARD 2457-10 with or without ≤45 g/m ² TEKNOCOAT AQUA 1864-62 or ≤12 g/m ² UVILUX 651-14120.
Tinting	As BASE 1 or BASE 3 tintable by TEKNOCOLOR tinting pastes up to 5%.
Drying time +23°C/50% RH	
- touch dry	After 20–30 min.
- overcoatable	After at least 4 hours. 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.
Thinner, clean up	Water.
Finish	Matt
Colours	White (BASE 1) or opaque (BASE 3)
Storage	Must not freeze. The best storage temperature is between +10°C and +25°C.
HEALTH AND SAFETY	See Safety Data Sheet.

DIRECTION FOR USE

Surface preparation	The wood must be clean and free from wood dust and contamination. The moisture content of the wood should be approx. 10 % and should not exceed 12 %.
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.
Application	<p>Stir the paint thoroughly before use, preferably using mechanical stirring. Apply industrially by spray.</p> <p>Apply by airless or airmix spray:</p> <p>Airless spray nozzle (flat) 0.28 mm, pressure 120–150 bar. Spray gun filter of min. 150 µm.</p> <p>Airmix spray nozzle (flat) 0.28 mm, pressure 80–120 bar and air support 1–1.5 bar. Spray gun filter of min. 150 µm.</p>
ADDITIONAL INFORMATION	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.

The above information is normative and based on laboratory tests and practical experiences. The information is noncommittal, and we cannot accept liability for the results obtained under working conditions beyond our control, and consequently the buyer or the user is not released from the obligation to test the suitability of our products for specific means and application methods under the actual application conditions. Our liability covers only damage caused directly by defects in the products supplied by Teknos. The latest versions of Teknos' Technical Data Sheets and Safety Data Sheets are available from our homepage www.teknos.com.
