Flame Guard b.v.

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ABN-AMRO 24.47.30.865 | IBAN: NL44ABNA0244730865 | SWIFT: ABNANL2A
BTW nr. NL 818074164B01 | KvK 09171908

HCA TR & HCA TR VARNISH

HCA TR is a water borne, colourless coating for the fire protection of internal timber, wood and decoration products. The HCA TR must be protected against short-time humidity by using it in combination with HCA TR VARNISH transparent finish.HCA TR and HCA TR VARNISH comply with many Dutch standards(NEN 6065, 6066 and 3883) and international standards(NEN-EN 13501-1, NEN EN 13823, NEN EN ISO 11925-2, NF P 92501, NBN 21-203, UNE 23.727, BS 476-7)

PRODUCT INFORMATION

Intumescent coatings react under the influence of great heat release like fire. Because of the heat the coating expands many times the original layer thickness producing an insulating carbon char. The carbon char will protect the steel from the effects of fire.

HCA TR is a colourless intumescent transparent coating based on waterborne dispersion. HCA TR must always be used in combination protective finish HCA TR VARNISH. HCA TR VARNISH is a solvent based, colourless finish especially developed to improve dust- and water resistance (no outdoor applications!) and to diminish the slight stickiness of HCA TR.

With HCA TR and HCA TR VARNISH a high level of workmanship can be achieved. The surface is smooth and transparent and complies with the highest aesthetic demands. Fine wood constructions or systems remain intact, so that they can retain their aesthetic values.

The field of application for HCA TR and TR VARNISH is very broad. Besides internal timber or wood constructions, the products can be used on substrates like soft-, hard- and chipwood, plywood, insulating board, doors, cardboard. Furthermore it can be applied on various plastics like polystyrene, polypropylene and polyethylene. Before applying on synthetic materials it is recommended to do an adhesion test. This accounts also for surfaces that have already been painted.

HCA TR and HCA TR VARNISH should not be used in area of high humidity or on places with high abrasion(floors, stair treads or handrails). The abrasion of HCA TR & TR-V is not comparable with a parquet finish, so application on floors and furniture will be dissuaded. For more information you can contact Export department of Flame Guard B.V.

PREPARATION

The surface should be dry and absolutely free of dust, grease, wax and other contaminations. The surface should be cleaned with a degreaser. Existing coatings should be stripped or sanded off completely. The moisture content of the timber should be below 15%.

APPLICATION

HCA TR and HCA TR Varnish must be applied at a relative air humidity not over 70% and a temperature no lower than 10°C. Before use, the product must be stirred thoroughly until a uniform dispersion is formed.

Best results will obtained when applying HCA TR and HCA TR-V by means of conventional or airless spray application. When using airless equipment a pressure of at least 150 bars with a nozzle size of 0.013-0.015 inches is recommended. Using airmix, a pressure of 4-4.5 bars and a spray size of 1.8-2.5

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mm is recommended. Also brush or a roller can be used, depending on the circumstances. HCA TR VARNISH can be thinned up to 10% with white spirit.

HCA TR and HCA TR VARINISH are tested according to EN 13823 and EN ISO 11925 and classified according European Classification EN 13501-1. See below table. For more international test report and classifications you can contact our Export department of Flame Guard B.V.

Material	Substrate	Rate HCA TR	Rate HCA TR VARNISH	Classification
Chipboards	Density ≥600 kg/m³; Thickness ≥12 mm	≥ 300 g/m²	≥ 40 g/m²	B-s1, d0
Solid wood plates	Density ≥420 kg/m³; Thickness ≥10 mm	≥ 350 g/m²	≥ 50 g/m²	B-s1, d0

Drying and curing times are dependent on humidity and temperature, applied film thickness, ventilation and other environmental conditions. Times are shorter at higher temperatures and longer at lower temperatures. As guide HCA TR will be touch dry within 2 hour and fully dry within 8 hours, all at 20°C, 60% RH. The coating can be recoat with HCA TR VARNISH after minimum 8 hours at 20°C. The HCA TR VARNISH will be touch dry after 24 hours and thoroughly dried after 48 hours. Material that is treated for fire tests should dry for at least 3 weeks before testing.

Surfaces and electrical appliances in the near surroundings of the application area should be covered. Tools or spilled paints can be removed or cleaned for HCA TR with water and for HCA TR VARNISH with white spirit.

CERTIFICATES

In the case application has been done by Flame Guard a Certificate of Treatment is issued. In this Certificate the exact surfaces that have been treated and the standard that is met are described. In addition it is also possible to close a service agreement, in order to secure long-term validity of the Certificate.

GENERAL AND TECHNICAL DATA

	HCA TR	HCA TR VARNISH
Base	Waterborne dispersion	Solvent base resin
Odour	Weak, characteristic	Aromatic
Density(ISO 2811, g/cm^3)	1.30 ± 5%	0.98 ± 5%
Solid content(ISO 3251, %)	60.0 ± 3.0	Depends on gloss range
VOC(EU Directive 2004/42/CE)	<35 g/l	<500 g/l
Packaging	12,5 kg en 25 kg	10 kg
Storage and shelf life	12 month in original, unopened packaging. Store frost free.	
Flash point	> 100°C	Ca. 61°C
Transport	Not classified according ADR/RID	

For extensive information you can consult the Material Safety Data Sheet(MSDS) of the product. You can request the MSDS at Flame Guard. These guidelines are merely meant as an advice. All values are indications and are the result of technical research and experience. No liability can be derived from it. With current issue of this information leaflet all former issues are expired.