Data Sheet

Lignodur TopGuard 280

Highly weather-resistant hybrid woodstain

Color System

Field of application

For weather-resistant, diffusible woodstain coats on hardwood and coniferous wood. Can be used as a moisture-regulating one-pot system with a high protective function on dimensionally stable, limited dimensionally and non-dimensionally stable wooden components, e.g., wooden paneling, roof soffits, pergolas, windows, shutters and fences. On surfaces that are highly exposed to moisture, e.g., on roof soffits which are exposed to condensation, there is a risk of fungal infestation. For such surfaces we recommend using Lignodur TopGuard 280 in Protect quality (for further Information on this, refer to Notes).

Properties

- Water-based
- Modern hybrid bonding technology
- For indoors and outdoors
- Quick drying
- Highly diffusible
- Silk gloss
- Slightly drip inhibited
- Long open time
- Block resistant
- refreshing surface effect
- Good penetration properties
- High color stability
- Optionally available for external areas in Protect quality (film protection against an algal and fungal infestation of the coating)

Material description

Color shades

Scale no.	Description
-	0100 transparent [1)]
09.LA.03	1410 oak
09.LA.02	1411 pine
21.LA.03	3410 mahogany
03.LA.08	7410 pebble
75.LA.02	7411 graphite
15.LA.03	8410 nutbrown
15.LA.02	8411 chestnut
12.LA.05	8412 teak
18.LA.04	8415 rosewood
03.LA.03	9410 ebony
03.LA.01	9510 chalk white

[1)] May only be used indoors, please refer to the information below Notes.
Additional color shades from the Brillux Color System.

Base material
Acrylate copolymer dispersion, alkyd resin polyurethane dispersion

VOC
EU limit for this product (Cat. A/e): 130 g/l (2010).
This product contains max. 100 g/l VOC.

Density
Approx. 1.0–1.1 g/cm³

Packaging
Standard: 750 ml, 3 l, 10 l
Color System: 750 ml, 3 l, 10 l

Use

Thinning
On very absorbent substrates, e.g. for the first coat, thin with up to 5% water.

Tinting
All colors can be mixed with one another without limitations.

Compatibility
Do not mix with other types of materials.

Application
Stir thoroughly before use. Evenly brush TopGuard 280 using a paintbrush with synthetic bristles, e.g. Uni-Plus Whitewash Brush 1211. Alternatively, Lignodur TopGuard 280 can be applied by spray application. In that case, the surfaces are subsequently to be smoothed by brush. More information on spray application is provided in the following “Spray data” table.

Consumption
Approx. 80 ml/m² per layer. Determine the exact consumption by means of a test application on the object to be coated.

Application temperature
Do not apply if air or object temperature is below +5°C or in direct sunlight. Temperatures between +15°C and +25°C are favorable.

Tool cleaning
Clean tools immediately after use with water and soap.

Use

Spray data

Spray system	Nozzle	Spray angle	Supply air / air quantity	Material pressure / material quantity	Thinning	Cross-spraying [3]
Low pressure [1]	Yellow front end [2]	–	50–75%	Ring setting 5–6	Unthinned	1
Airless	0.008 inch	40°	–	60 bar	Unthinned	1

The data is based on substrate and ambient temperatures of +20°C.

[1] Information relating to XVLP technology with Wagner FinishControl FC 3500 or FC 5000.

[2] StandardSpray spray attachment (yellow) for all standard enamel paints and woodstains. Also keep the nozzle clean during application. Remove dry paint material with a soft brush. Please follow the equipment manufacturer's instructions.

[3] The areas are to be brushed after spray application to achieve a smooth surface.

Drying (+20°C, 65% relative humidity)

Dust dry after approx. ½ hour. Recoatable after approx. 3 hours. Allow for longer drying time if the temperature is lower and/or the humidity is higher.

Storage

Store in a cool, dry and frost-free place. Reseal opened containers tightly. Only recycle completely empty containers. Dispose of liquid material residue at a collection point for old paint.

Declaration

Note Contains preservatives.
Do not inhale spray mist.

Product code BSW30
Comply with the specifications in the current safety data sheet.

Coating build-up

Substrate preparation

The substrate must be solid, dry, clean, with good adhesiveness, load-bearing and free from separating agents. The BFS Leaflet no. 18 specifies that the moisture content for dimensionally stable components must be limited to 15%. For non-dimensionally stable components and components with limited dimensional stability, the moisture content must not exceed 18%. Remove grayed wood down to the load-bearing wood layers. Hazardous particles and vapors may be released while reworking or removing old paint coats, e.g. as a result of sanding, paint removal by heat gun, etc. Perform such work in well ventilated areas only and ensure the use of appropriate protective equipment (including respiratory protective equipment) as required. Pretreat, prime and/or apply the intermediate coat to the substrate, as required. Also see BFS Leaflet no. 18, 4 and 5, as well as VOB Part C, DIN 18363, Paragraph 3.

Exterior coats on wood

Substrates	Impregnation [1)]	Prime coat	Intermediate coat	Top coat
Untreated, dimensionally stable, limited dimensionally, and non-dimensionally stable wooden components, in exterior areas, e.g., wooden paneling with tongue and groove (e.g. roof soffits), pergolas, shutters, fences	Lignodur Contrabol Aqua 250	Lignodur TopGuard 280	Lignodur TopGuard 280	Lignodur TopGuard 280
Wooden components with an intact woodstain coat	Raw wooden surfaces with Lignodur Contrabol Aqua 250	If necessary, repair damaged areas with Lignodur TopGuard 280		

[1)] Follow the instructions in BFS Leaflet No. 18, Sections 6 and 7.2.1.

Interior coats on wood

Substrates	Prime coat	Intermediate coat	Top coat
Untreated wooden components and wood-based materials, indoors	Lignodur TopGuard 280	If necessary, Lignodur TopGuard 280	Lignodur TopGuard 280
Wooden components and wood-based materials with intact woodstain coating, indoors	If necessary, repair damaged areas with Lignodur TopGuard 280		

Notes

Sand the substrates	Sand the surfaces between work steps.
Avoid contact with plasticizers	Do not allow the surfaces to come into contact with plastics containing plasticizers, e.g. sealing profiles.
Avoid “paint-on-paint” contacts	Water-based enamel paints exhibit thermoplastic behavior. As a consequence, “paint-on-paint” contacts must be avoided.
Check old coatings	Check old woodstain coatings for adhesion, for example by scratching the substrate or applying then removing sticky tape. Applying a wet cloth to the surface additionally clarifies whether the coating and/or the wood is suitable for coating build-up. If a dark, damp spot appears on this part of the wood after a brief period, then the surface needs to be sanded back to the load-bearing wooden layer.
Assess woodstain color shade	The various kinds of wood and existing, intact woodstain coatings affect the woodstain color shade due to intrinsic color and absorbency. For this reason, we recommend applying a test coat in advance.
Do not use colorless build-up outdoors	Colorless woodstain coats are not suitable as a sole coating build-up for use in exterior areas due to their insufficient UV protection.
Shelf life of woodstain coating	The shelf life of a woodstain coating depends on countless factors, e.g., the construction and the general impregnation and priming of the (specified) components. To maintain the woodstain coating, we recommend performing checks at regular intervals, but after 2–3 years at the latest, and if necessary, maintenance of the woodstain coating is to be performed, especially in areas exposed to weathering.
Wood constituents	If there is a risk of soluble wood constituents bleeding through white or light woodstain coatings, we recommend using opaque coating systems, as required.
Protect quality	The material quality marked with Protect is provided with a film preservation against fungal infestation and should therefore only be used outdoors. The preservatives used minimize and/or delay the risk of fungal infestation. We recommend applying at least two coats. With the current state of the art technical development, a permanent protection against fungal infestation cannot be guaranteed.
Wood-based panels for outdoors	In accordance with the current state of the art, wood-based panels are only conditionally suited for coating in exterior areas. Also refer to BFS Leaflet No. 18, Paragraph 2.2.3. A coating recommendation can only be provided on a case-by-case basis under consideration of the material type and quality, construction, and climatic conditions. Please contact the Brillux Consulting Service if you require assistance in this context.
Cleaning and maintenance	For cleaning the painted surfaces, use a clean, soft cloth, dry or damp, without abrasive, solvent-based or caustic agents. Clean without applying excessive pressure (do not polish the surfaces). Perform a test cleaning beforehand in an inconspicuous area. Only clean surfaces that have completely dried and cured.
Further information	Follow the instructions in the data sheets of the products used.

Remark

This data sheet is based on extensive development work and years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

When a new version of this data sheet with updated information is published, the previous version no longer applies. The current version is available on our website.

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