Data Sheet

Lignodur UltraGuard 580

Extremely weather-resistant high-solid woodstain

Color System

Field of application

For weather-resistant glazing coats on all hardwood and coniferous woods, outdoors. Can be used as a one-pot system for dimensionally stable wooden components, e.g., windows and doors, as well as on wooden components with limited dimensional stability, e.g., tongue and groove paneling (roof soffits), shutters, etc. Furthermore, it can also be used indoors. On moisture-exposed wooden components with limited dimensional stability, we recommend using Lignodur UltraGuard 580 in Protect quality (for further information on this, refer to Notes).

Properties

- Aromatics-free
- Based on state-of-the-art high-solid binder technology
- For indoors and outdoors
- Excellent UV and weather-resistance thanks to the additional UV absorber
- Good penetration properties
- Moisture regulating
- Silk gloss
- Drip-inhibited for safe overhead work
- Block resistant
- 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

Brillux ..more than paint

Material description

Color shades

Scale no.	Description
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.

Gloss grade
Silk gloss

Base material
Special alkyd resin, solvent-based

VOC
EU limit for this product (Cat. A/e): 400 g/l (2010).
This product contains max. 400 g/l VOC.

Flash point
+56°C

Density
Approx. 0.92 g/cm³, depending on the color shade.

Packaging
Standard: 375 ml, 750 ml, 3 l and 5 l
Color System: 375 ml, 750 ml, 3 l and 5 l

Use

Thinning
Ready for application.
No thinning, since this would result in the EU limit value in accordance with the VOC Directive being exceeded.

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

Compatibility
Can only be mixed with materials of the same type and those specified in this data sheet.

Application
Stir thoroughly before use. Evenly apply Lignodur UltraGuard 580 with a natural bristle brush or a Uni-Plus Paint Brush. Alternatively, Lignodur UltraGuard 580 can also be applied without Protect additive using the XVLP spray method. In that case, the surfaces are subsequently to be rolled by brush.

Consumption
Approx. 70 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.

Tool cleaning
Clean tools immediately after use with Thinner AF 631 or Quick-acting Brush Cleaner 111.

Use

Spray data

Spray system	Nozzle	Spray angle	Supply air / air quantity	Material pressure / material quantity	Thinning	Cross-spraying
Low pressure [1)]	Yellow front end [2)]	–	100%	Ring setting 6–8	Unthinned	1 [3)]

Only material without Protect additive may be applied using the spray method.
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)

Dry after approx. 6 hours. Recoatable after approx. 24 hours.
Allow for longer drying time if the temperature is lower and/or the humidity is higher.

Storage

Store in a cool and dry location. Reseal opened containers tightly.

Declaration

Product code BSL10
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 maximum moisture content for dimensionally stable components 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. Only perform this kind of work in well ventilated areas 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.

Coating build-up

Exterior coats on non-dimensionally stable and limited dimensionally stable wooden components

Substrates	Impregnation [1)]	Prime coat	Intermediate coat	Top coat
Untreated, dimensionally stable wooden components, windows and doors	Lignodur Contrabol 550	Lignodur UltraGuard 580	Lignodur UltraGuard 580	Lignodur UltraGuard 580
Untreated limited dimensionally stable wooden components, outdoors, e.g. tongue and groove paneling (roof soffits), shutters, etc.	Lignodur Contrabol 550	Lignodur UltraGuard 580		
Wooden components with an intact woodstain coat	Raw wooden surfaces with Lignodur Contrabol 550	If necessary, repair damaged areas with Lignodur UltraGuard 580		

[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 UltraGuard 580	If necessary, Lignodur UltraGuard 580	Lignodur UltraGuard 580
Wooden components and wood-based materials with intact woodstain coating, indoors	If necessary, repair damaged areas with Lignodur UltraGuard 580		

Brightening technique

The “brightening technique” can be used when it is necessary to make dark wooden elements with intact woodstain coating appear lighter or to match windows and doors, for example. This effect is achieved by means of a harmonized combination of a covering prime coat and a woodstain finish. Prepaint the prepared, load-bearing wooden surfaces with Impredur Primer 835 in accordance with the desired wood color shade. Depending on the selected woodstain color shade, we recommend using a harmonizing primer color shade (see overview below). Then apply Lignodur UltraGuard 580 as per usual, leaving a slight “streaking” in the direction of the grain. An intermediate coat and a topcoat should generally be applied. To evaluate the color shade and the surface effect, we recommend—as is generally the case for woodstain coatings—preparing a sample surface beforehand.

“Brightening technique” for dimensionally stable and partially dimensionally stable wooden components

Substrates	Prime coat [1)]	Intermediate coat	Top coat
Wooden components with dimensional stability or limited dimensional stability and intact dark woodstain coats	Impredur Primer 835 in the determined base color shade	Lignodur UltraGuard 580	Lignodur UltraGuard 580

[1)] Covering base color shade harmonized with the woodstain color shade.

Recommended base color shades [1)]

Woodstain color shade	Base color shade	Woodstain color shade	Base color shade
03.LA.01 chalk white	12.12.09	06.LA.10 silk	12.12.09
03.LA.02 sand gray	12.12.09	09.LA.02 pine	12.12.09
03.LA.03 ebony	12.12.09	09.LA.03 oak	12.12.09
03.LA.04 marsh	12.12.09	09.LA.05 driftwood	12.12.09
03.LA.05 umbra gray	12.12.09	09.LA.06 acacia	12.12.09
03.LA.07 platinum	12.12.09	09.LA.07 opal white	12.12.09
03.LA.08 pebble	12.12.09	09.LA.09 antique white	12.12.09
03.LA.09 silver gray	12.12.09	12.LA.01 pine	12.12.09
03.LA.10 shell	12.12.09	12.LA.02 velvet	12.12.09
06.LA.03 saffron	12.12.09	12.LA.03 curry	12.12.09
06.LA.04 ash	12.12.09	12.LA.05 teak	12.12.09
06.LA.05 light pine	--- *)	12.LA.07 bangkirai	12.12.09
06.LA.06 clay	12.12.09	12.LA.08 rustic oak	12.12.09
06.LA.07 beach	12.12.09	12.LA.10 savannah	12.12.09

*) No recommendation due to contrasts
[1)] According to Scala “Glazing and top coats” color card.

Brightening technique

Recommended base color shades [1)]

Woodstain color shade	Base color shade	Woodstain color shade	Base color shade
12.LA.11 jute	12.12.09	51.LA.01 linen	12.12.09
12.LA.12 sycamore	12.12.09	51.LA.02 travertine	12.12.09
15.LA.01 walnut	12.12.09	57.LA.04 mountain lake	12.12.09
15.LA.02 chestnut	15.12.21	57.LA.10 glacier blue	12.12.09
15.LA.03 nutbrown	12.12.21	60.LA.03 steel gray	12.12.09
15.LA.04 larch	12.12.09	60.LA.06 fjord	12.12.09
15.LA.07 alder	12.12.09	63.LA.02 pacific	12.12.09
15.LA.08 cherry	15.12.21	63.LA.03 slate	12.12.09
15.LA.11 wenge	12.12.21	69.LA.03 cobalt	12.12.09
18.LA.01 elm	12.12.09	75.LA.01 basalt	12.12.09
18.LA.04 rosewood	12.12.21	75.LA.02 graphite	12.12.09
18.LA.07 light mahogany	15.12.21	75.LA.03 frisian blue	12.12.09
18.LA.10 siena	12.12.09	75.LA.05 mountain blue	12.12.09
18.LA.11 colorado	12.12.09	75.LA.07 patina	12.12.09
21.LA.01 pumpkin	12.12.09	75.LA.10 ice blue	12.12.09
21.LA.03 mahogany	15.12.21	78.LA.02 sapphire	12.12.09
27.LA.03 falun red	12.12.09	81.LA.07 moss	12.12.09
27.LA.04 salsa	12.12.09	84.LA.03 laurel	12.12.09
30.LA.01 ruby	12.12.09	87.LA.05 bamboo	12.12.09
42.LA.01 calcite	12.12.09	90.LA.02 reed	12.12.09
42.LA.02 ore	12.12.09	90.LA.03 fir	12.12.09
45.LA.02 dragon blood	12.12.09	90.LA.05 tundra	12.12.09

[1)] According to Scala “Glazing and top coats” color card.

Notes

Sand the substrates
Sand the surfaces between work steps.

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.

Notes

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.

Indoor application

Odor and yellowing are typical material features of alkyd resin paints. For large-scale applications indoors (e.g. on ceilings and walls) and for white and light color shades, we recommend using the water-based woodstain Lignodur Grenodecor 236.

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.

Protect quality

The material quality marked with Protect is provided with a film preservation against fungal infestation and should therefore only be used outdoors and only applied by brush. 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.

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.

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