

Lignodur FlexGuard 871



Long-lasting weather protective paint based on pure acrylate, for outdoors



Color System

Basecode

Field of application

For the optimal protection of non-dimensionally stable and limitedly dimensionally stable wooden components in exterior areas, e.g., wooden panelings, fences, pergolas, strut frames in timber framework construction, roof soffits, shutters. Also suitable as a coating on coatable plastics (e.g., rigid PVC) and zinc or galvanized components, e.g. on gutters, iron hardware. Furthermore, also suitable for renovating factory-made coatings, e.g., coil coating. 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 FlexGuard 871 in Protect quality (for further Information on this, refer to Notes).

Properties

- Highly weather-resistant emulsion paint
- For outdoors
- Water-based
- Good hiding power
- Ideal combination of ultimate UV and weather protection and aesthetics
- With film protection from the factory
- Highly diffusible while also repelling water
- Good flexibility, does not embrittle
- optionally available in Protect quality (film protection against an algal and fungal infestation of the coating)

Material description

Colors	Scale no.	Description
	–	0095 white
	–	0096 antique white:
	27.12.30	RAL 3011 brown red
	60.09.21	RAL 5014 pigeon blue
	81.09.30	RAL 6005 moss green
	81.06.30	RAL 6009 fir green
	72.06.30	RAL 7016 anthracite grey
	75.03.12	RAL 7035 light grey

Material description

Colors	Scale no.	Description
	15.06.30	RAL 8017 chocolate brown
	93.03.06	RAL 9010 pure white
	–	9900 black
	Additional color shades from the Brillux Color System.	
Gloss grade	Silk matt	
Base material	Pure acrylate copolymer, pigmented	
VOC	EU limit for this product (cat. A/d): 130 g/l (2010). This product contains max. 100 g/l VOC.	
Density	Approx. 1.32 g/cm ³ (white)	
Water-vapor-permeable resistance S_d(H₂O)	< 0.5 m, with a film thickness of 150 µm Corresponds to requirements in accordance with WTA Leaflet 8-7	
Packaging	Standard: 750 ml, 3 l, 10 l Color System: 750 ml, 3 l, 10 l	

Use

Thinning	If necessary for flow regulation, dilute with water up to approx. 5%.
Tinting	All colors can be mixed with one another without limitations.
Compatibility	Do not mix with other types of materials.
Application	Lignodur FlexGuard 871 can be applied using brush and roller application methods. Brushes with synthetic bristles, such as the Uni-Plus Paint Brush, round 1204 are suitable for brush application. Alternatively, Lignodur FlexGuard 871 can be applied by spray application. More information on spray application is provided in the "Spray data" table.
Consumption	Approx. 120–150 ml/m ² 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 with water immediately after use.

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⁾	–	80–100%	Ring setting 6–8	Approx. 10%	1½–2
AirCoat ³⁾	0.011 inch	40°	3.0 bar (air)	120 bar	Unthinned	1½–2
Airless ⁴⁾	0.009 inches	40°	–	160–180 bar	Unthinned	1½–2

Comply with the specifications in the current safety data sheet relating to personal protective equipment. 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) Information relating to the use of 11/40 AirCoat nozzles (green or blue air cap) e.g. for large-surface applications and 11/50 nozzles with otherwise unchanged settings.

4) Information related to the use of FineFinish nozzles 408 (TradeTip 3 – violet).

Drying (+20°C, 65% relative humidity)

Dust dry after approx. 1–2 hours. Recoatable after approx. 10 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.

Declaration

Note Contains preservatives.
Do not inhale spray mist.

Product code BSW50
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%. 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. 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.

Exterior coats on wood

Substrates	Impregnation ¹⁾	Prime coat	Intermediate coat	Top coat
Untreated non-dimensionally stable wooden components, e.g. overlapping paneling, fences, pergolas	Lignodur Contrabol Aqua 250	Depending on the requirements and selection Lignodur FlexGuard 871 or Isoprimer 243 ²⁾	Lignodur FlexGuard 871	Lignodur FlexGuard 871
Untreated limited dimensionally stable wooden components: e.g. tongue and groove paneling (e.g. roof soffits), shutters		Lignodur FlexGuard 871		
Timber framework		Lignodur FlexGuard 871		
Wooden components with intact, load-bearing old coatings	Raw wooden surfaces with Lignodur Contrabol Aqua 250	If necessary, repair damaged areas with Lignodur FlexGuard 871 or Isoprimer 243 ²⁾		
Timber framework with intact, load-bearing old coatings	Raw wooden surfaces with Lignodur Contrabol Aqua 250	If necessary, repair damaged areas with Lignodur FlexGuard 871		

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

²⁾ Apply the prime coat with Isoprimer 243 for white or light-colored coatings to prevent water-soluble substances from bleeding through. We recommend providing two coats of primer on wood that is very rich in active substances. As an alternative to Isoprimer 243, the prime coat can also be applied using Impredur Primer 835, 0095 white. Lightly sand the prime coat before applying an additional coating.

Coating build-up

Exterior coats on zinc, galvanized steel, iron hardware, coil coating

Substrates	Prime coat ¹⁾	Intermediate coat	Top coat
Zinc, galvanized components, and hard PVC for exterior use, untreated, e.g., gutters	Lacryl Universal Primer 246	Lignodur FlexGuard 871	Lignodur FlexGuard 871
Zinc, galvanized components, hard PVC with intact, load-bearing old coating	If necessary, repair damaged areas with Lacryl Universal Primer 246		
Iron hardware, untreated (as part of wood treatment)	Metal Primer 850 (exterior 2x)		
Iron hardware with intact, load-bearing old coating (as part of wood treatment)	If necessary, repair damaged areas with Metal Primer 850, (exterior 2x)		
Intact, factory-made coatings, e.g., coil coating	2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		

¹⁾ The suitability of coil coatings is to be evaluated on site on a case-by-case basis.

Notes

Protect quality

Lignodur FlexGuard 871 comes from the factory with preservatives and therefore may only be used outdoors. The preservatives used and, in particular, the quality marked Protect minimize or delay the risk of algal and 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 exterior use

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.

Avoid "paint-on-paint" contacts

Water-based enamel paints exhibit thermoplastic behavior. As a consequence, "paint-on-paint" contacts, e.g. due to stacking, must be avoided.

Brilliant and intense color shades

Brilliant, pure intense color shades, e.g. in the yellow, orange, red, magenta and yellow-green range, have a low hiding power due to the nature of their pigments. When using critical color shades in these color ranges, we recommend applying a full-covering prime coat in the corresponding base color (Basecode). In addition to the standard coating buildup, additional coats may be required.

Notes

Protective colloids for protection in the case of early exposure to moisture

If exposed to moisture too soon after application (condensation or rain), water-soluble protective colloids concentrated in the coating film can be released and appear as glossy streaks on the coating surface. If such stains occur, do not immediately re-coat the surfaces. The water-soluble materials will be washed again off by further moisture (rain). If the affected surfaces are to be re-coated immediately, the stains must be washed off thoroughly with water. To avoid this, only carry out the coating work when weather conditions are favorable.

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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