

Residur 891

Synthetic Resin Enamel, aromatics-free, high gloss,
for exterior and interior use

Farbsystem Basecode



Field of application

For resistant, quick-drying enamel paint coats on primed metal components, e.g. steel structures, construction machinery and agricultural machinery. Also suitable for renovation intact paint coats and for interior wood components.

Properties

- aromatics-free
- based on alkyd resin
- high gloss
- optimum hiding power
- outstanding surface hardness
- Block-resistant
- for exterior and interior use
- resistant to short-term exposure to lubricant, drilling oil and diesel oil

Material description

Color shades	Scala No.	Description
	—	0095 white
	—	0096 antique white
	03.18.18	RAL 1021 rape yellow ¹⁾
	27.24.27	RAL 3000 flame red ¹⁾
	60.18.27	RAL 5010 gentian blue
	81.09.30	RAL 6005 moss green
	72.06.30	RAL 7016 anthracite grey
	75.03.12	RAL 7035 light grey
	51.03.24	RAL 7037 dusty grey
	15.06.30	RAL 8017 chocolate brown
	03.03.09	RAL 9002 grey white
	93.03.06	RAL 9010 pure white
	—	9900 black

Additional color shades can be mixed with the Brillux Color System.

¹⁾ For these color shades we recommend applying a full-covering base coat in the corresponding base color shade (Basecode).

Material description

Degree of gloss	high gloss
Base material	Alkyd resin, solvent-based, pigmented
VOC	EU limit for this product (Kat. A/d): 300 g/l (2010) This product contains a max. of 300 g/l VOC
Flash point	+41 °C
Density	ca. 0.85–1.25 g/cm ³
Packaging	Standard: 750 ml, 3 l, 10 l (depends on the color shade) Color System: 750 ml, 3 l, 10l

Use

Thinning	Ready to use. Do not thin, otherwise the EU limit according to VOC directive is exceeded.
Tinting	All colors can be mixed with one another.
Compatibility	May only be mixed with materials of the same type and the materials specified for this purpose in this data sheet.
Application	Residur 891 can be applied by means of a paintbrush or paint roller.
Consumption	Approx. 80 to 100 ml/m ² per layer. Determine 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.

Drying (+20 °C, 65 % relative humidity)

Dust-dry after approx. 3 hours. Recoatable after approx. 16 hours. Allow longer drying times at lower temperatures and/or higher air humidity.

Storage

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

Declaration

Product code	BSL20 Comply with the specifications in the current Safety Data Sheet.
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Substrate preparation

The substrate must be solid, dry, clean, with good adhesiveness, load-bearing and free from separating agents. Check existing coatings for their suitability, load-bearing capacity and adhesive properties. Remove defective and unsuitable coatings thoroughly and dispose of them in accordance with the applicable regulations. Thoroughly sand in-tact enamel paint coatings. Hazardous particles and vapors may be released while reworking on or removing old paint coats, e.g., as a result of sanding, paint removal by heat gun, etc. Perform such work only 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 VOB Part C, DIN 18363, Section 3.

Exterior coats on iron / steel

Substrates	Prime coat ^{1) 2)}	Intermediate coat	Top coat
iron/steel, exterior, untreated	depending on requirements Multi Primer 227 (twice) or Metal Primer 850	Residur 891	Residur 891
iron/steel, exterior, with factory prime coat	defective areas and whole surface with Metal Primer 850 or Multi Primer 227		
iron/steel, exterior, with intact, bearing old enamel paint coat	defective areas with Metal Primer 850 or Multi Primer 227	depending on requirements and selection, Metal Primer 850 or Impredur Primer 835	
iron/steel, interior, untreated	depending on requirements Metal Primer 850 or Multi Primer 227	depending on requirements and selection, Metal Primer 850 or Impredur Primer 835	
iron/steel, interior, with factory prime coat	Defective areas with Metal Primer 850 or Multi Primer 227		
iron/steel, interior, with intact, bearing old enamel paint coat			

¹⁾ Depending on the requirements, Enamel Filler 518 can be used in the interior for treating the primed surfaces.

²⁾ On CoilCoating, powder coatings, two-component coats, we recommend as a general rule priming with 2K-Epoxy Varioprimer 865 or 2K-Epoxy Varioprimer S 864.

Coats on zinc, galvanized steel, aluminum, hard PVC

Substrates	Prime coat ^{1) 2)}	Intermediate coat	Top coat
zinc, zined components/structures, exterior, untreated	depending on requirements and selection, (twice) 2K-Epoxy Varioprimer 865, 2K-Epoxy Varioprimer S 864 or 2K-Aqua Epoxy Primer 2373	Residur 891	Residur 891
zinc, zined components/structures, interior, untreated	depending on requirements and selection 2K-Epoxy Varioprimer 865, 2K-Epoxy Varioprimer S 864 or 2K-Aqua Epoxy Primer 2373		
aluminum, exterior and interior, untreated	2K-Epoxy Varioprimer 865 or 2K-Epoxy Varioprimer S 864		
hard PVC, exterior and interior, untreated	defective areas, once or twice, depending on requirements, with 2K-Aqua Epoxy Primer 2373, 2K-Epoxy Varioprimer 865 or 2K-Epoxy Varioprimer S 864		
intact, bearing coats, exterior and interior		depending on requirements and selection Metal Primer 850 or Impredur Primer 835	

- ¹⁾ Depending on the requirements, Enamel Filler 518 can be used in the interior for treating the primed surfaces.
²⁾ On CoilCoating, powder coatings, two-component coats and anodized aluminum, we recommend as a general rule priming with 2K-Epoxy Varioprimer 865 or 2K-Epoxy Varioprimer S 864.

Interior coatings on wood

Substrates	Prime coat ¹⁾	Intermediate coat	Top coat
wooden components/structures, wooden materials, interior, untreated	Impredur Primer 835	depending on requirements and selection with Impredur Undercoat Impredur Tix 120 or Impredur Primer 835	Residur 891
wooden components/structures, wooden materials, interior, with intact old paint coat	defective areas with Impredur Primer 835		

- ¹⁾ Depending on the requirements, Enamel Filler 518 can be used in the interior for treating the primed surfaces, for example.

Notes

No inner furniture surfaces	The inner surfaces of furniture and cupboards should not be painted with alkyd resin paints because of possible odor built up.
Large-surface applications in the interior	For large-surface applications in the interior (e.g. on ceiling and wall surfaces), we recommend using water-based paint systems due to the typical smell of solvent-based alkyd resin paints, e.g. Hydro-PU-Tec Silk Matt Enamel 2088 or Hydro-PU-Tec High Gloss Enamel 2084. If you have any questions, please contact the Brillux consulting service.
Sanding surfaces	We recommend sanding the surfaces between the individual work steps. Light sanding is required in particular if a "coat-on-coat" structure is used.
Design with brilliant or intensive colors	Brilliant, pure intense color shades, e.g. in the yellow, orange, red, magenta and yellow-green range have a low covering capacity. When using critical color shades in these color ranges we recommend applying a full-covering prime and/or intermediate coat in the corresponding base color (Basecode). In addition to the standard coating build-up, further coats may be required.
Yellowing of the surface	Absence of daylight (insufficient UV radiation), heat and chemical influences, e.g. fumes from cleaning agents, adhesives, coatings or sealants can result in yellowing of surfaces coated. This is typical of alkyd resin enamel paints and does not constitute a product defect. See also BFS Leaflet No. 26 "Color changes of exterior coatings".
Cleaning and care	To clean the coated surfaces, use a clean, soft cloth, which is either dry or damp, but without any abrasive, solvent-based or caustic cleaning agents. Avoid applying too much pressure when cleaning (i.e. do not polish the surfaces). First, test the cleaning result in an inconspicuous area. Only clean surfaces that have completely dried and set.
Further information	Follow the instructions on 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. Version I

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