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DATA SHEET

ENV 304a – Powder coating according to system approval RVS 15.05.31

Substrate material:

STEEL galvanized

Component measurements:

up to l = 13,600 x w = 2,500 x h = 4,000 mm
up to l = 17,500 x w = 1,000 x h = 2,000 mm
(in hung condition)

Exterior application

Component weight:

up to 3.000 kg

Process:

Sweeping/fine blasting, ENVIRAL[®] curing primer and powder coating
Highly weatherproof

Product description:

Surface pre-treatment and surface coating on a lead-, chromium-, cadmium- and solvent-free basis in RVS quality. The proof of suitability according to RVS 08.09.02 point 4.2.1.1 has been provided using ENVIRAL[®] objects.

Properties:

The powder coating is tested and approved by the "Gütegemeinschaft für Stückgutbeschichtung".

- Highest weather resistance
- Best mechanical properties
- Good flow
- Chromium-, lead-, cadmium- and solvent-free

Application:

Coating of galvanized steel profiles, steel sheets and steel constructions for exterior application

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Process restrictions: Cavities, sharp edges and concealed areas (e.g. doublings) cannot be protected.

When producing the parts, it is necessary to ensure that machining fluids and greases are removed - especially around non-visible areas, unavoidable doublings, blind holes, threads, etc. - as these cannot be completely cleaned off by the blasting process and therefore have a negative effect on the powder coating layer and durability during the curing process.

Galvanized surfaces must be in perfect condition and have a coatable surface, in other words free of zinc corrosion, water-soluble salts, passivation, zinc sprays, zinc pastes or similar separation layers. Nevertheless, outgassing and bubble formation may occur due to the thermal treatment after coating.

In deviation from the DIN 55633 standard, **no** optical improvement of the zinc coating (no removal of thickenings and irregularities in the zinc coating) is carried out by ENVIRAL® before powder coating of galvanized surfaces. This is a chargeable additional service that requires an agreement and a separate written order by the customer.

Color tones:

- Approx. 180 RAL colors (smooth glossy, smooth satin finish, smooth matt, (coarse) textured glossy)
- Standard RAL colors also available as ENV Antimicrobial
- Metallic, approx. P-tones, approx. DB metallic
- Pearlescent mica metallic
- Special color tones NCS; Sikkens or according to color samples
- Effect powder coatings: ENVnatuRAL Design, ENVTransparent, etc.

Process description:

- Sweeping / fine blasting (compare with data sheet ENV 700)
- ENVIRAL® curing primer
- Curing
- Powder coating Highly weatherproof
- Curing

Notes: **Residues of blasting media in component cavities are to be expected! These cannot be completely removed. - Please take this into account when further processing and completing your components (e.g. protection of mechanical/movable built-in parts).**

Assessment of the surface:

The finished coated surface is assessed in accordance with the Association of Window and Facade Manufacturers (Verband der Fenster- und Fassadenhersteller e.V.), VFF leaflet ST.02, status August 2016 (Visual assessment of organically coated surfaces on steel) and delivered in this quality. Additional requirements, including standard requirements or requirements of service specifications, are only valid if they have been explicitly confirmed in writing by ENVIRAL®.

Suspension:

According to our suspension recommendations (compare data sheet ENV 800)

Quality assurance:

Continuing process control and order-specific quality assurance, destructive and non-destructive; RVS proof of suitability was provided on 24 June 2015.

Packaging:

Noppa foam, air cushion film

Repair:

According to our repair recommendations (compare data sheet ENV 802)

Cleaning:

According to our cleaning recommendations (compare data sheet ENV 801)

Sealant adhesion:

According to sealant adhesion on powder-coated surfaces of facades (compare data sheet ENV 803)

Approvals:

Environmental Product Declaration according to ISO 14025 and EN 15804:

EPD-VDL-20160263-IAG1-EN: Polyester powder coating

EPD-VDL-20160264-IAG1-EN: Epoxy powder coating

EPD-VDL-20160265-IAG1-EN: Hybrid powder coating

EPD-GDA-20190070-IBH1-EN: Aluminum profile coated



Test object after > 5 years of use