

2K-Derocryl Lack Durapid

Two component high solid topcoat on acrylic resin basis, chemical cured with poly-isocyanate (polyurethane). Free of lead, cadmium and chromium VI compounds.

Field of application

- Quick-drying, scratch-resistant monolayer coat for steel and aluminium
- Smoother surface and gloss increase possible by forced drying.
- Easy and smooth in application.
- Use for metal coating according to Dekopaint directive possible.
- DGNB compliant because VOC <300 g/l

Product properties

- High Solid
- Scratch resistance
- Industriel uv-resistance
- Fast drying

Technical Specification

| | | |
|---|---|---|
| Colours | RAL 5010 , RAL-colour chart with exceptions. Other colours upon request. | |
| Flash point | >23 °C | |
| Temperature stability | -20 up to 120 (short-term up to 150) °C | |
| Gloss | Satin glossy, appr. 40 U in 60° angle | |
| Potential dry film thickness in one working process | 80 up to 100 µm | |
| Mixing ratio | Hardener HL 115 | Hardener HL 402 |
| (Basis:hardener) by weight | 6:1 | 8:1 |
| (Basis:hardener) by volume | 4,5:1 | 5,5:1 |
| Pot life in hours | 2 | 2 |
| Viscosity | Thixotrope | Thixotrope |
| Density in kg/l | 1,35 | 1,38 |
| Solid content in % | 76 | 79 |
| Solid volume in % | 62 | 67 |
| Theoretical spreading capacity | <ul style="list-style-type: none"> • 7,75 m²/l at 80 µm DFT • 5,74 m²/kg at 80 µm DFT | <ul style="list-style-type: none"> • 8,38 m²/l at 80 µm DFT • 6,07 m²/kg at 80 µm DFT |
| Recommended film thickness | 125 µm WFT corresponds to 80 µm DFT | 125 µm WFT corresponds to 80 µm DFT |
| Drying (DIN EN ISO 1517) | 80 µm DFT | 80 µm DFT |
| Dust-dry (Tg1) | After 45 min | After 45 min |
| Touch-dry (Tg4) | After 3,5 h | After 3,5 h |
| Dry (Tg6) | After 5 h | After 5 h |
| Cured chemically | After 7 days | After 7 days |
| Accelerated drying | 30 min. at 60°C possible, after 10 min. flash-off time | 30 min. at 60°C possible, after 10 min. flash-off time |
| Interval for overcoating | <ul style="list-style-type: none"> • after 6 h with itself • Max. after 24 h without slightly sanding | <ul style="list-style-type: none"> • after 6 h with itself • Max. after 24 h without slightly sanding |
| Note | <ul style="list-style-type: none"> • The specifications are related to the prepared mixture and are based on standard atmospheric conditions 23/50, DIN 50014. • Lower temperatures and/or higher humidity will prolong drying and hardening. • Application below +5 °C is not possible. | |

2K-Derocryl Lack Durapid

Safety information (See Security Data Sheet)

| | | |
|------------------|----------------------|----------------------|
| VOC-level | Aprr. 285 g/l | |
| Solvent content | Aprr. 21 % by weight | Aprr. 21 % by weight |
| Aromatic content | Aprr. 12 % by weight | |

Storage

| | |
|------------|---|
| Storage | <ul style="list-style-type: none"> In dry, cool rooms, if possible frost-proof Ensure good ventilation |
| Shelf life | <ul style="list-style-type: none"> 6 month from date of delivery when in unopened original containers in cool and dry conditions |

Application methods

| | |
|-------------------------------|--|
| Mixing ratio | <ul style="list-style-type: none"> Stirr homogeneous, preferably with mechanical stirrer Mix base paint and hardener according to the mixing ratio as specified |
| Airless spraying | <ul style="list-style-type: none"> Risk of spray dust due to very fast drying Flow pressure 180 bar Nozzle size 0,011 - 0,015 inch (0,28 - 0,38 mm) Spraying angle according to the geometry and size of the object to be laquered If required (two component: after mixing) using 3% Derozink-Verdünnung is possible |
| Compressed air spraying | <ul style="list-style-type: none"> Spraying pressure 2 - 3 bar Nozzle size 1,6 - 2 mm Adjust to spraying viscosity (appr. 40 s DIN 4 mm) adding appr. 10 % Derozink-Verdünnung (two component products: after mixing) |
| Electrostatic application | <ul style="list-style-type: none"> Can be applied as delivered Conductance of the material: 800 kOhm |
| Dipping | <ul style="list-style-type: none"> Can not be applied as delivered |
| Other methods | <ul style="list-style-type: none"> Roller and brush application for repair work is possible |
| Thinner | <ul style="list-style-type: none"> Max. 10% Derozink-Verdünnung |
| Cleaning | <ul style="list-style-type: none"> Rinse immediately with Derocrylverdünnung |
| Preparation of support | <ul style="list-style-type: none"> Shot blasting to a purity according to SA 2½ Mill scale, welding residues, dust and dirt on the surface which might reduce adhesion have to be carefully and thoroughly removed |
| General remarks | <ul style="list-style-type: none"> During coating and drying the humidity should be min. 30 % / max. 85 % During coating and drying the environmental temperature should be min. 5°C / max. 30°C Object temperature at least 3° C above dew point. |
| Example for a system | <ul style="list-style-type: none"> Finish coat: 2K-Derocryl Lack Durapid |

The general information and descriptions contained in this specification are provided to the best of our knowledge. Our information and specifications do not constitute warranted characteristics in the legal sense. Any advice for preparation and application which may be provided verbally, in writing or by means of experiments is of general nature only, and any property rights of third parties are also to be regarded in this context. Our general instructions do not release you from your obligation to check the suitability of the products supplied by our company for the intended methods and purposes of application. Particular in those cases when our supplied material will be applied with products from other sources. The products are prepared, applied and used outside of our sphere of control and thus fall solely within the user's scope of responsibility.

Our general terms of sale and delivery apply as agreed.

Product group: PD4442