







Technical data sheet


NOVAKRYL 580

Acrylic clearcoat

Two-component acrylic clearcoat with increased scratch resistance (SR)

| PROPERTIES | | | | | | |
|--|---|--------------|--------------|--------------|--------------|--|
| <p>NOVAKRYL 580 – an acrylic clearcoat that has a high solids content and is highly scratch resistant (SR). High hardness, UV resistance and weather resistance guarantee high durability, while the gloss and depth ensure an excellent appearance of the paint coating. The recommended coating thickness is produced by applying one and a half layer; the good flowability and quick drying ensure easy repair and short time of processing in the painting cabin. It is available in versions with the slow, standard or fast hardener; the selection of specific hardener depends on the application conditions. Due to its properties, Novakryl 580 is a clearcoat that enables easy reproduction of the factory paint coating structure.</p> | | | | | | |
| RELATED PRODUCTS | | | | | | |
| H 5120 | Hardener Standard, Fast and Slow. | | | | | |
| THIN 850 | Acrylic thinner Standard, Fast and Slow | | | | | |
| PLUS 770 | Elasticity increasing agent | | | | LT-04-01 | |
| PLUS 750 | Acrylic accelerating agent | | | | LT-04-02 | |
| PLUS 760 | Antisilicone additive | | | | LT-04-04 | |
| THIN 890 | Fade out Thinner. | | | | LT-06-05 | |
| SUBSTRATES | | | | | | |
| Compatible with the majority of solvent and waterborne basecoats available on the market. | | | | | | |
| MIXING RATIO | | | | | | |
|  | NOVAKRYL 580 H 5120 THIN 850 | W/o thinner | | With thinner | | |
| | | Volume ratio | Weight ratio | Volume ratio | Weight ratio | |
| | | 2 | 100 | 2 | 100 | |
| | | 1 | 50 | 1 | 50 | |
| | | 0 | 0 | 10% | 9 | |
| Apply the thinner in the amount calculated for the clearcoat. | | | | | | |
| VISCOSITY | | | | | | |
|  | DIN 4/20°C | W/o thinner | | With thinner | | |
| | | 17 – 19 s | | 15 – 17 s | | |

| CONTENT OF VOLATILE ORGANIC COMPOUNDS | | | | | | |
|--|--|--------------------------------|-----------------|----------------------|-------------|----------------------|
| VOC II/B/e limit* | | 840 g/l | | | | |
| Actual VOC content | | 560 g/l | | | | |
| * For ready to use mixture acc. to EU Directive 2004/42/CE | | | | | | |
| APPLICATION CONDITIONS | | | | | | |
| It is recommended to apply the clearcoat at a temperature above 15°C and a humidity of no more than 80 %. Under such conditions, the cured coating can be used after no less than 14 hours. | | | | | | |
| APPLICATION | | | | | | |
|  | Conventional gravity fed spray gun | Nozzle | Pressure | Distance | | |
| | | 1.3 – 1.4 mm | 3 – 4 bar | 15 – 20 cm | | |
| CAUTION: Instructions of the equipment manufacturer must be followed. | Low-pressure gravity fed spray gun | 1.2 – 1.3 mm | 2 bar | 10 – 15 cm | | |
| | | | | | | |
|  | Number of layers | W/o thinner | | With thinner | | |
| | | 1.5 | | 2 – 3 | | |
| | Single dry layer thickness | 30 – 35 µm | | 20 – 30 µm | | |
| | The yield of the ready to use mixture for the given range of dry layer thickness | 8.0 m ² /l at 50 µm | | | | |
|  | Mixture life at 20° C | H 5120 Slow, Standard | | H 5120 Fast | | |
| | | 2 h | | 30 min | | |
|  | Flash off between layers at 20°C | 5 – 10 min | | | | |
| CURING TIMES | | | | | | |
| | H 5120 Slow | | H 5120 Standard | | H 5120 Fast | |
| | 20°C | 60°C | 20°C | 60°C | 20°C | 60°C |
| Dust-free | 30 min | 6 min | 25 min | 5 min | 20 min | 5 min |
| Tack-free | 4 h | 15 min | 3 h | 10 min | 1.2 h | 10 min |
| Operating hardness | 14 h | 45 min | 14 h | 45 min | 12 h | 35 min |
| Ending hardness | 7 days | 45 min + 3 days/20°C | 7 days | 45 min + 3 days/20°C | 5 days | 35 min + 3 days/20°C |
| CAUTION: The curing times apply to the temperatures of the individual elements. Drying the coat with a fast hardener at an increased temperature can deteriorate the gloss and makes it necessary to polish the coat. The fast hardener should not be used with the PLUS 750 acrylic accelerating agent. | | | | | | |

| IR DRYING | | | |
|--|--|--------------------------------------|---|
|  | Distance Time depending on the type and power of the lamp | | Follow the recommendations of the equipment manufacturer 10 — 25 min |
| CAUTION: Start IR heating no sooner than 10 mins after applying the last layer. | | | |
| THIN 850 ACRYLIC THINNER | | | |
| Surface | 15 — 20°C | 20 — 25°C | 25 — 35°C |
| Small 1-2 elements, spot repair | H 5120 Fast THIN 850 Fast | H 5120 Standard THIN 850 Fast | H 5120 Standard THIN 850 Standard |
| Medium 3-5 elements | H 5120 Fast THIN 850 Fast | H 5120 Standard THIN 850 Standard | H 5120 Standard THIN 850 Slow |
| Large more than 5 elements | H 5120 Fast THIN 850 Standard | H 5120 Standard THIN 850 Slow | H 5120 Slow THIN 850 Slow |
| EQUIPMENT CLEANING | | | |
| THIN 850 acrylic thinner or NC solvent. | | | |
| STORAGE CONDITIONS | | | |
| Store in a cool dry room, away from sources of fire and heat. Avoid direct exposure to sunlight. | | | |
| SHELF LIFE | | | |
| NOVAKRYL 580 | 24 months/20°C | | |
| H 5120 Standard, Slow | 18 months/20°C | | |
| THIN 850 Fast | 24 months/20°C | | |
| SAFETY | | | |
| See Safety Data Sheet. | | | |
| OTHER INFORMATION | | | |
| Registration number: 000024104. The effectiveness of our systems results from laboratory research and many years of experience. The data contained herein meets the current knowledge about our products and their application potential. We ensure high quality, provided the user follows the instructions and the work is performed in accordance with good workmanship. It is necessary to do a test application of the product due to its potentially different reaction with different materials. We may not be held liable for defects if the final result was affected by factors beyond our control. | | | |

ADDITIONAL INFORMATION

WEIGHT QUANTITY OF COMPONENTS:

Version without thinner; 2+1

CAUTION! In order to obtain a paint coating with appropriate parameters it is very important to exactly dose the individual components.

| Mixture quantity | NOVAKRYL 580 | H 5120 |
|------------------|--------------|--------|
| 0.10 l | 67 g | 34 g |
| 0.15 l | 101 g | 51 g |
| 0.20 l | 134 g | 68 g |
| 0.25 l | 168 g | 84 g |
| 0.30 l | 201 g | 101 g |
| 0.40 l | 268 g | 135 g |
| 0.50 l | 335 g | 169 g |
| 0.75 l | 503 g | 253 g |
| 1.00 l | 670 g | 337 g |

WEIGHT QUANTITY OF COMPONENTS:

Version with thinner; 2+1+10%

CAUTION! In order to obtain a paint coating with appropriate parameters it is very important to exactly dose the individual components.

| Mixture quantity | NOVAKRYL 580 | H 5120 | THIN 850 |
|------------------|--------------|--------|----------|
| 0.10 l | 63 g | 32 g | 6 g |
| 0.15 l | 94 g | 47 g | 8 g |
| 0.20 l | 126 g | 63 g | 11 g |
| 0.25 l | 157 g | 79 g | 14 g |
| 0.30 l | 188 g | 95 g | 17 g |
| 0.40 l | 251 g | 127 g | 22 g |
| 0.50 l | 314 g | 158 g | 28 g |
| 0.75 l | 471 g | 237 g | 42 g |
| 1.00 l | 628 g | 316 g | 56 g |