

Technical data sheet

# NOVAKRYL 9090 Hydrofobic

**Hydrofobic clearcoat**






Hydrofobic acrylic clearcoat with superior anti-graffiti protection, hardened with aliphatic isocyanate.

## RELATED PRODUCTS

|                         |   |
|-------------------------|---|
| <b>HARD 45 STANDARD</b> | Hardener for UHS acrylic products standard  |
| <b>THIN 50</b>          | Universal thinner, slow, standard, and fast |


## PROPERTIES

- Graffiti paint can be easily removed (and partially with pressurized water)
  - Facilitates easy removal of dirt from the coating – Easy Clean
    - Slick coating effect – Smooth Touch
  - Improved resistance to icing – Anti Frost
    - Suitable for easy removal of graffiti
    - Increased scratch resistance (SR)
      - Great flowability
      - Fast drying

| SUBSTRATES  |  |  |           |              |
|---|--|--|-----------|--------------|
| Base layers   |  | Dry matt surface.  |           |              |
| MIXING RATIO  |  |  |           |              |
|    | NOVAKRYL 9090 Hydrofobic<br>HARD 45<br>THIN 50   | Volume ratio   |           | Weight ratio |
|   |  | 2  |           | 100          |
|   |  | 1  |           | 54           |
|   |  | 10%  |           | 9            |
| Apply the thinner in the amount calculated for the clearcoat.   |  |  |           |              |
| VISCOSITY   |  |  |           |              |
|    | DIN 4/20°C   |  | 17 ÷ 21 s |              |
| CONTENT OF VOLATILE ORGANIC COMPOUNDS   |  |  |           |              |
| VOC II/B/e limit*   |  | 840 g/l  |           |              |
| Actual VOC content  |  | 490 g/l  |           |              |
| * For ready to use mixture acc. to EU Directive 2004/42/CE  |  |  |           |              |
| APPLICATION CONDITIONS  |  |  |           |              |
| The temperature of the coat, coated surface and environment should be between +10°C and +35°C at a maximum relative humidity of 80%.      |  |  |           |              |
| TEMPERATURE RESISTANCE  |  |  |           |              |
| The operating temperature of the applied primer is between -60°C and +80°C.<br>Transient temperatures up to +120°C maximum are permitted. |  |  |           |              |
| 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 HVLP spray gun  | 1.2 ÷ 1.3 mm   | 2 bar     | 10 ÷ 15 cm   |
|   |         | Number of layers   | 2 ÷ 3     |              |
|   | Single dry layer thickness   | 20 ÷ 25 µm   |           |              |
|   | Yield of the ready to apply mixture for a dry layer thickness in the provided mixing ratio | 10 m <sup>2</sup> /l<br>0.1l/ m <sup>2</sup><br>at 50 µm<br>NOVAKRYL 9090 Hydrofobic + HARD 45 (2+1) |           |              |
|    | Mixture life at 20° C  | HARD 45 STANDARD   |           |              |
|   |  | 1 hour   |           |              |

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|  |                               |  |                          |
|--|-------------------------------|--|--------------------------|
|   | Flash-off time between layers | 5 ÷ 15 min<br>Note! The flash-off time between layers should not be too long due to high hydrophobic performance |                          |
| <b>TECHNICAL DATA</b>  |                               |  |                          |
| Product  | Solids content by weight      | Solids content by volume   | Density                  |
| NOVAKRYL 9090 Hydrofobic   | ≈ 45 %                        | ≈ 42 %   | ≈ 0.97 g/cm <sup>3</sup> |
| HARD 45 STANDARD   | ≈ 68 %                        | ≈ 66 %   | ≈ 1.05 g/cm <sup>3</sup> |
| NOVAKRYL 9090 Hydrofobic + HARD 45: 2+1  | ≈ 53 %                        | ≈ 50 %   | ≈ 0.99 g/cm <sup>3</sup> |
| <b>GLOSS</b>   |                               |  |                          |
| Approx. 90 / 20°   |                               |  |                          |
| <b>CURING TIMES</b>  |                               |  |                          |
|  | Hardener HARD 45 STANDARD     |  |                          |
|  | 10°C                          | 20°C   | 60°C                     |
| Dust-free  | -                             | 30 min.  | 10 min.                  |
| Tack-free  | -                             | 1,5 hours  | 25 min.                  |
| Operating hardness   | -                             | 15 hours   | 60 min.                  |
| CAUTION: The curing times apply to the temperature of specific elements.<br>Drying the coat with a fast hardener at an increased temperature can deteriorate the gloss and make it necessary to polish the coat.                           |                               |  |                          |
| <b>USE</b>   |                               |  |                          |
| The coated surface must be dry. The coat, coated surface and ambient temperatures must be between +10°C and +35°C; the relative humidity must not exceed 80%.<br>The coated surface temperature must exceed the dew point by at least 3°C. |                               |  |                          |
| <b>EQUIPMENT CLEANING</b>  |                               |  |                          |
| THIN 50 universal thinner or NC solvent.   |                               |  |                          |
| <b>STORAGE CONDITIONS</b>  |                               |  |                          |
| Store in a dry room, away from sources of flame and heat. Avoid direct exposure to sunlight.<br>Recommended storage temperature: +5°C to +35°C.  |                               |  |                          |
| <b>SHELF LIFE *</b>  |                               |  |                          |
| NOVAKRYL 9090 Hydrofobic   | 12 months/20°C                |  |                          |
| HARD 45 STANDARD   | 18 months/20°C                |  |                          |
| THIN 50  | 24 months/20°C                |  |                          |
| * In original sealed packaging   |                               |  |                          |

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## 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.