

Technical data sheet

# NOVOCOAT 4990 UHS

UHS acrylic topcoat – gloss  
Two-component acrylic topcoat  
hardened with aliphatic isocyanate

## RELATED PRODUCTS






|                         |   |
|-------------------------|---|
| <b>Pigment pastes</b>   | Universal pigment pastes                    |
| <b>HARD 49 STANDARD</b> | Hardener for UHS acrylic products, standard |
| <b>HARD 49 FAST</b>     | Hardener for UHS acrylic products, fast     |
| <b>THIN 50</b>          | Universal thinner standard                  |


## USE:

- Means of transport
- Machines and equipment
- Outer surfaces of tanks
  - Steel structures

## PROPERTIES

- VOC-standards compliant
- High solid particle content
  - High yield
- Perfect hiding power and flowability
  - Very good chemical resistance
- Excellent resistance to atmospheric conditions
  - Very good mechanical resistance

| PODŁOŻA   |   |  |   |              |
|---|---|--|---|--------------|
| Acrylic, polyurethane, epoxy primers  |   | Prepare in accordance with the information contained in the primer specifications. |   |              |
| Old paint coatings  |   | Mat and degrease.  |   |              |
| Polyester laminates   |   | Mat and degrease.  |   |              |
| MIXING RATIO  |   |  |   |              |
|    | NOVOCOAT 4990 UHS   |  | Volume ratio  | Weight ratio |
|   | HARD 49   |  | 4   | 100          |
|   | THIN 50   |  | 1   | 25           |
|   |   | 0-5%   | 0-5g  |              |
| Apply the thinner in the amount calculated for the topcoat.   |   |  |   |              |
| VISCOSITY   |   |  |   |              |
|    | DIN 4/20°C<br>4+1+5%  |  | 32-38 s<br>(viscosity may vary according to the colour) |              |
| CONTENT OF VOLATILE ORGANIC COMPOUNDS   |   |  |   |              |
| VOC II/B/d limit *  |   | 420 g/l  |   |              |
| Actual VOC content  |   | 419 g/l  |   |              |
| * For the ready to apply mixture compliant with Directive UE 2004/42/CE   |   |  |   |              |
| APPLICATION CONDITIONS  |   |  |   |              |
| The coated surface should be dry. The temperature of the coat, coated surface and environment should be between +10°C and +35°C at a maximum relative humidity of 80%.<br>The coated surface temperature should exceed the dew point by a minimum of 3°C. |   |  |   |              |
| APPLICATION   |   |  |   |              |
|    | Pneumatic spraying  | Nozzle   | Pressure  | Distance     |
|   |   | 1,8-2,0 mm   | 2 ÷ 4 bar   | 15 ÷ 20 cm   |
| <b>CAUTION:</b> Instructions of the equipment manufacturer must be followed.  | Airless spraying  | 0.028 ÷ 0.033mm<br>(0.011" ÷ 0.013")   | 100 ÷ 160 bar<br>Air jacket<br>2 bar                    | 10 ÷ 15 cm   |
|   |  | Number of layers   | 1-2   |              |
|   | Single dry layer thickness.   | 40 ÷ 50 µm   |   |              |
|   | Yield of the ready to apply mixture for a dry layer thickness in the provided range | 12,4 m <sup>2</sup> /l<br>0,08 l/ m <sup>2</sup><br>at 50 µm                       |   |              |
|    | Mixture life at 20°C  | Hard 49 STANDARD   | Hard 49 FAST  |              |
|   |   | 2 hours  | 1 hour  |              |

|   |                          |                          |         |                                 |                   |      |
|---|--------------------------|--------------------------|---------|---------------------------------|-------------------|------|
|    | Flash off between layers | 10 min                   |         |                                 |                   |      |
| <b>TEMPERATURE RESISTANCE</b>   |                          |                          |         |                                 |                   |      |
| The operating temperature of the applied primer is between -60°C and +80°C.<br>Transient temperatures up to +120°C maximum are permitted.       |                          |                          |         |                                 |                   |      |
| <b>TECHNICAL DATA</b>   |                          |                          |         |                                 |                   |      |
| Product   | Solids content by weight | Solids content by volume |         | Density                         | Fineness of grind |      |
| NOVOCOAT 4990 UHS   | ≈ 62 %                   | ≈ 60 %                   |         | ≈ 1.00 + 1.06 g/cm <sup>3</sup> | < 7.5µm           |      |
| HARD 49   | 69 %                     | 68 %                     |         | 1.07 g/cm <sup>3</sup>          | —                 |      |
| NOVOCOAT 4990 UHS +<br>HARD 49 : 4+1  | ≈ 64 %                   | ≈ 62%                    |         | ≈ 1.05 g/cm <sup>3</sup>        | < 7.5µm           |      |
| <b>Gloss</b>  |                          |                          |         |                                 |                   |      |
| At 60° approx. 90   |                          |                          |         |                                 |                   |      |
| <b>CURING TIMES</b>   |                          |                          |         |                                 |                   |      |
|   | HARD 49 STANDARD         |                          |         | HARD 49 FAST                    |                   |      |
|   | 10°C                     | 20°C                     | 60°C    | 10°C                            | 20°C              | 60°C |
| Dust free   | -                        | 40 min.                  | 10 min. | 3 hours                         | 25 min.           | -    |
| Tack free   | -                        | 3 hours                  | 25 min. | 20 hours                        | 2 hours           | -    |
| Operating hardness  | -                        | 14 hours                 | 45 min. | 48 hours                        | 10 hours          | -    |
| CAUTION: The curing times apply to the temperatures of the individual elements.   |                          |                          |         |                                 |                   |      |
| <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>  |                 |
|--|-----------------|
| NOVOCOAT 4990 UHS  | 24 months/20 °C |
| Pigment pastes   | 24 months/20 °C |
| HARD 49 STANDARD   | 18 months/20 °C |
| HARD 49 FAST   | 12 months/20 °C |
| THIN 50  | 24 months/20 °C |
| * In original sealed packaging   |                 |
| <b>SAFETY</b>  |                 |
| See Safety Data Sheet.   |                 |
| <b>OTHER INFORMATIONS</b>  |                 |
| Registration number: 000024104.<br><br>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. |                 |