



ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a - 2590 Berlaar - Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

## POLYURETHANE FOAM PU 40 A+B

### APPLICATIONS:

Low-density handwork or fillings.

### PROCESSING:

Mix manually or mechanically, pour within 40 seconds. Curing at room temperature.

Pour on mould heated at 50 - 60°C to improve surface finish.

### PRODUCT INFORMATION:

Two component polyurethane foam, fast. Density: 55 g/l. The system contains no ozone resources.

### SYSTEM SPECIFICATIONS:

Component PU 40 A

- |                      |                |
|----------------------|----------------|
| ✓ Viscosity at 25°C: | 700-1000 mPas  |
| ✓ Colour:            | pale yellow    |
| ✓ Density at 25°C:   | 1.00-1.02 g/ml |

Component PU 40 B

- |                      |                |
|----------------------|----------------|
| ✓ Viscosity at 25°C: | 165-235 mPas   |
| ✓ Colour:            | dark brown     |
| ✓ Density at 25°C:   | 1.21-1.25 g/ml |

### CHARACTERISTICS OF THE TYPICAL SYSTEM:

Processing data:

- |                          |         |
|--------------------------|---------|
| ✓ Mixing ratio by weight | 100:100 |
| ✓ Mixing ratio in volume | 100:83  |

### TYPICAL SYSTEM DATA:

- |                          |                   |
|--------------------------|-------------------|
| ✓ Reactivity: Cream time | 35-45 sec         |
| ✓ Reactivity: Gel time   | 90-140 sec        |
| ✓ Unmoulding time:       | 20-30 min         |
| ✓ Expansion:             | about 15-18 times |

### TYPICAL CURED PROPERTIES:

(standard curing: 24h at room temperature + 15h 60°C)

- |  |             |
|--|-------------|
| ✓ End colour:                                | Beige       |
| ✓ Workability:                               | Very good   |
| ✓ Density:                                   | 50 - 60 g/l |
| ✓ Recommended maximum operating temperature: | 65°C        |

### INSTRUCTIONS FOR PROPER USE:

Mix the two components (resin and hardener) in the correct mixing ratio and avoid air inclusion until a homogeneous mixture is obtained. a homogeneous mixture is obtained, then pour.

Quickly pour within 20 - 30 seconds by starting the mixture on dry and cool moulds and prepared with wax release agent.

### POST-CURING:

Post-curing is always recommended to stabilise the cured handwork to achieve the best mechanical properties. Post-curing becomes necessary when the handwork is used at temperatures above 70°C.



ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a - 2590 Berlaar - Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

Allow hand work to post-cure with increasing temperature and avoid thermal gradients of more than 10°C/hour. The thermal gradient and curing time refer to standard samples. Users should select the best conditions depending on the size and shape of the part.

**PRECAUTIONS FOR STORAGE AND HANDLING:**

Polyurethane resins and hardeners can be stored for more than one year in the original sealed container in a cool and dry place. Resins and hardeners are both very moisture-sensitive; it could lead to irregular expansion during curing. The isocyanates may crystallise at low temperature. To recover the original properties, heat the product to 60-70°C avoiding local overheating. Cool to room temperature before use. Consult the product's safety data sheet.