



ASSYST sprl / A.S.O.W. sprl
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UV RESISTANT EPOXY RP026UV WITH HARDENER IPE744

DESCRIPTION:

Unfilled epoxy system, transparent with very high yellowing resistance.

APPLICATION:

Models and transparent objects.

PROCESSING:

Pouring mass at high thickness. Curing at room temperature.

SYSTEM SPECIFICATIONS:

Resin RP 026 UV

- | | |
|---------------------|----------------|
| ✓ Viscosity at 25°C | 600-800 mPas |
| ✓ Color | colorless |
| ✓ Density at 25°C | 1.09-1.12 g/ml |

Harder IPE 744

- | | |
|---------------------|----------------|
| ✓ Viscosity at 25°C | 60-80 mPas |
| ✓ Color | colorless |
| ✓ Density at 25°C | 0.95-1.00 g/ml |

CHARACTERISTICS OF THE TYPICAL SYSTEM:

Processing Data:

- | | |
|---------------------------------------|--------------|
| ✓ Mixing ratio by weight | 100:40 |
| ✓ Mixing ratio in volume | 100:46 |
| ✓ Potlife at 25°C (100ml, 40mm) | > 2u |
| ✓ De-forming time (15 ml, 5 mm, 25°C) | 24-48 u |
| ✓ Post-curing at 40°C (recommended) | 10-15 u |
| ✓ Maximum recommended thickness | 60-80 mm (*) |

(*) The maximum casting thickness is strongly dependent on the mould material, the dimensions and the room temperature.

TYPICALLY CURED SYSTEM PROPERTIES:

Properties determined on cured samples: 24 h KT (room temperature) + 15 h 60°C

- | | |
|--------------------|----------------|
| ✓ Color | colorless |
| ✓ Density at 25°C | 1.05-1.10 g/ml |
| ✓ Glass transition | 50-55°C |

INSTRUCTIONS:

Check the components and homogenize if necessary before use.

Mix the two components (resin and hardener) in the correct ratio avoiding air entrapment until a homogeneous mixture is obtained, then apply.

Prepare the surface of the mold with 2 or 3 applications of detergent (refer to the release agent data sheet).

CURING / POST TREATMENT:

Post-treatment is always recommended to stabilize the cured craft to achieve the best mechanical properties.

Post-curing becomes necessary when the craft is used at elevated temperatures.

Re-cure by increasing the temperature and avoiding thermal gradients of more than 10°C / hour. The thermal gradient and curing time refer to standard samples. Users should find the best conditions depending on the size and shape of the part. For large components reduce the thermal gradient and increase the post-cure time; in the case of thin layer applications and composites post-cure on the mould.



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STORAGE:

Epoxy resins and hardeners can be stored in their original closed packaging in a cool and dry place for more than a year. Hardeners are moisture sensitive.
Refer to the product data sheet for health and safety.