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# THE OPTIMAL MOUNTING METHOD AND CORRECT MOUNTING MATERIALS

**Everything you need for reliable analysis in materialography**

Mounting is a method for materialographic sample preparation. In this process, the sample is encased in a suitable molding compound which, after hardening, forms a protective shell. This makes it easier to use sensitive specimens, enables the standardization of different geometries and ensures better edge retention.

In the laboratory, **hot mounting**, **cold mounting** or **light-induced mounting** can be used. Our practical selection guide helps you choosing a suitable mounting method and offers you an appropriate mounting material for your specific requirements and application.



**COLD MOUNTING**

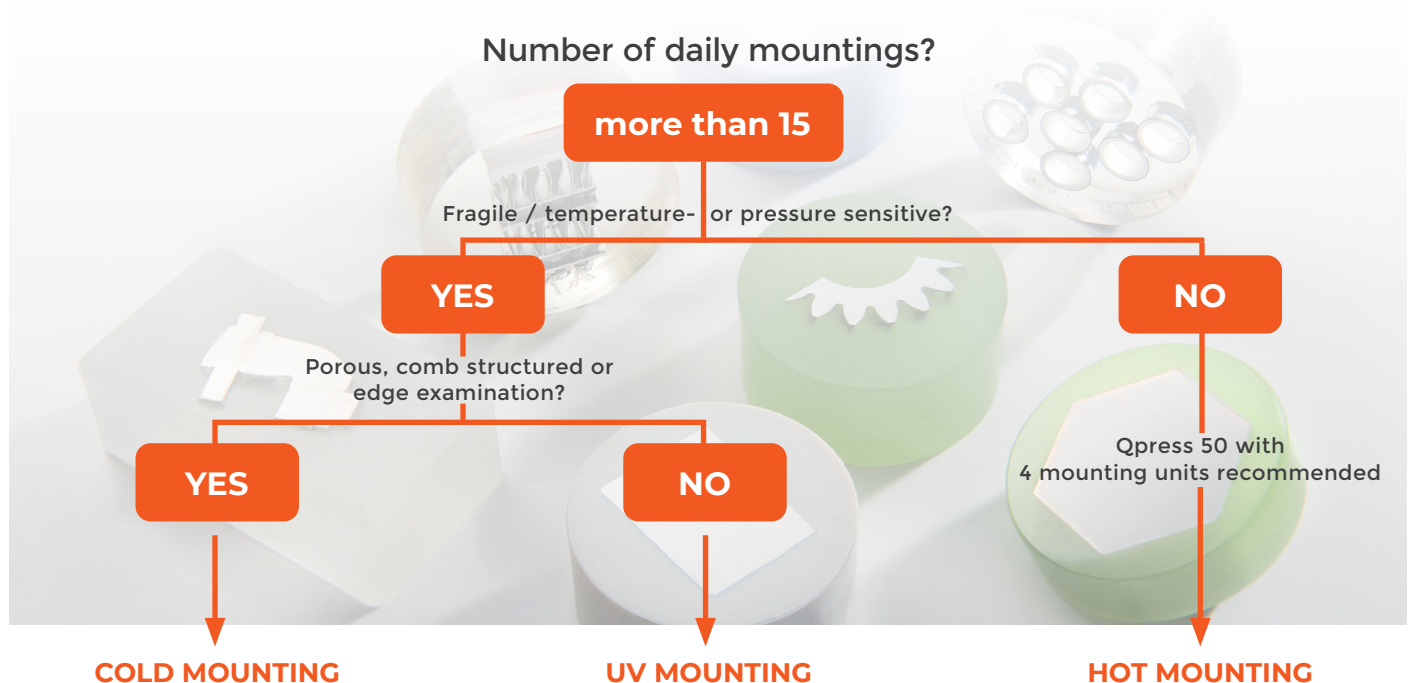


**UV MOUNTING**



**HOT MOUNTING**

## Selection of the mounting method for more than 15 mountings per day



**For hard coatings and surfaces**  
Polyester resin:

**Qprep KEM 15 Plus**

- I For optimal edge retention and lowest shrinkage, fast curing (25 minutes)

**For best adhesion and transparency**  
Epoxy resins:

**Qpox 90**

- I For low curing temperatures and low viscosity (35°C at RT)

**Qpox 94**

- I For low curing times and same day preparation (9 h at RT / 3 h at 45°C)

**Qpox 92**

- I For maximum transparency and hardness (glass clear, 81 Shore D)

**High sample throughput**  
UV resins:

**Qprep UV 50 / 55**

- I User-friendly, no mixing required!

**Qprep UV 50**

- I For maximum sample throughput in ~60 seconds

**Qprep UV 55**

- I For transparent and low gap mounting in ~10 minutes

**High quality and plane parallel mounting**

**Qprep BAKELIT BLACK / RED / GREEN**

- I For standardized routine mounting of soft to medium hard materials

**Qprep THERMOPLAST**

- I For transparency and target preparation of soft materials

**Qprep EPO Black / EPO-Max**

- I For particularly hard, corrosion and wear-resistant materials and outstanding edge retention

**Additional resins for routine analysis**

Methacrylic resins:

**KEM 20**

- I For transparent mounting

**KEM 30**

- I For fast mounting (5 minutes)

**KEM 35**

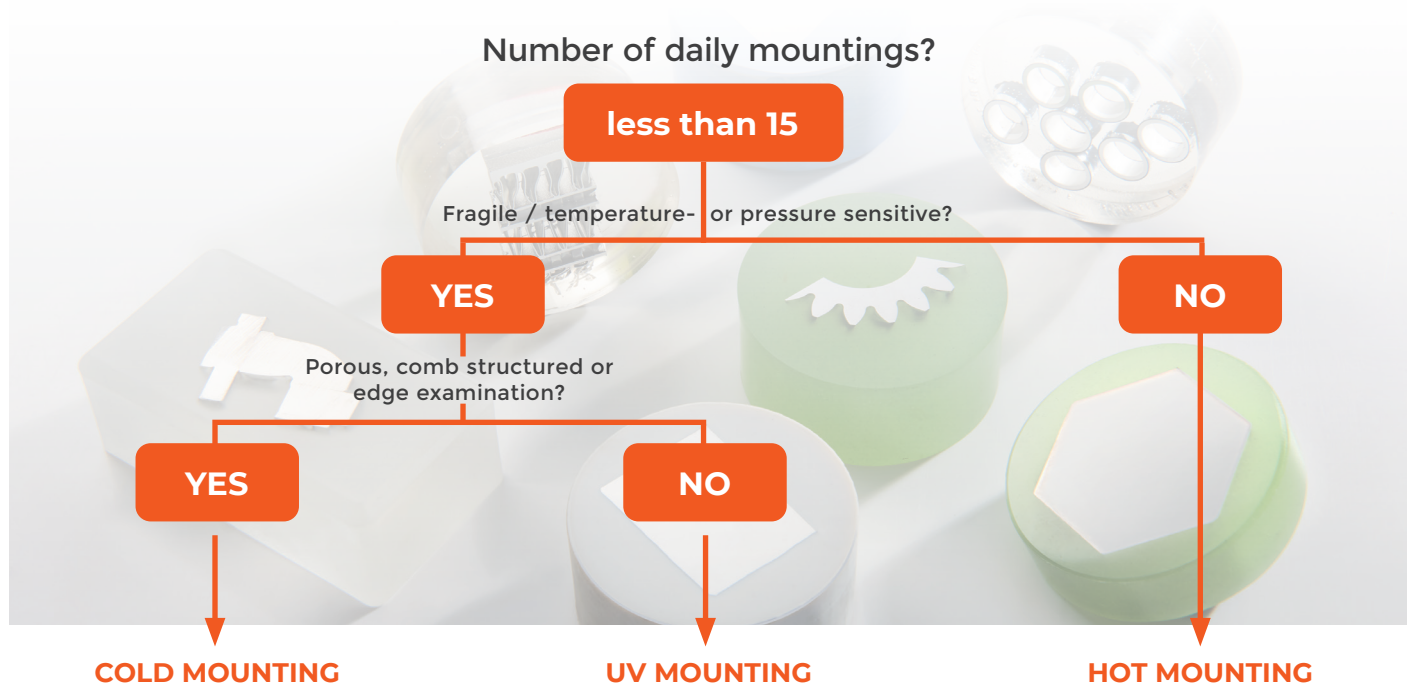
- I For hard materials (87 Shore D)

**KEM 60**

- I Universal application



## Selection of the mounting method for less than 15 mountings per day



**For hard coatings and surfaces**  
Polyester resin:

**Qprep KEM 15 Plus**

- For optimal edge retention and lowest shrinkage, fast curing (25 minutes)

**For best adhesion and transparency**  
Epoxy resins:

**Qpox 90**

- For low curing temperatures and low viscosity (35°C at RT)

**Qpox 94**

- For low curing times and same day preparation (9 h at RT / 3 h at 45°C)

**Qpox 92**

- For maximum transparency and hardness (glass clear, 81 Shore D)

**Additional resins for routine analysis**  
Methacrylic resins:

**KEM 20**

- For transparent mounting

**KEM 30**

- For fast mounting (5 minutes)

**KEM 35**

- For hard materials (87 Shore D)

**KEM 60**

- Universal application

**Time efficient & safe**  
UV resins:

**Qprep UV 50 / 55**

- User-friendly, no mixing required!

**Qprep UV 50**

- For fast & safe mounting in ~60 seconds

**Qprep UV 55**

- For transparent and low gap mounting in ~10 minutes

**High quality and plane parallel mounting**

**Qprep BAKELIT BLACK / RED / GREEN**

- For standardized routine mounting of soft to medium hard materials

**Qprep THERMOPLAST**

- For transparency and target preparation of soft materials

**Qprep EPO Black / EPO-Max**

- For particularly hard, corrosion and wear-resistant materials and outstanding edge retention

