

# BUEHLER® Replicating Media

- **Premium Quality, Exact Surface Replicas With  $\leq 1\mu\text{m}$  Resolution of Surface Detail**
- **Creates a Permanent Record for Future Examination and Comparisons**
- **Simple to Use, Fast Setting, and Simple to Remove**
- **Available in Standard and Thixotropic Grades**
- **Very Low Chlorine and Sulfur Contents**
  - Suitable for Nuclear Use
- **All Grades are Free From Solvents and are Non-flammable**



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## Ordering Information

**57-6000** Manual Applicator for Replicating Media

**57-6001** Static Mixers 10 Pack

**57-6002** Replicating Media 1/7. 1 minute working time, 7 minute cure time.

**57-6003** Replicating Media 7/30T. 7 minute working time, 30 minute cure time. Thixotropic formula for use on horizontal surfaces.

## Replicating Media Instructions

Fit the cartridge to the applicator and remove the cap (or the static mixer in the case of a part-used cartridge). Apply very light pressure via the applicator trigger to ensure that both cartridge nozzles are free but without expelling either of the two components. Only light trigger pressure is necessary to expel the Replicating Media via the static mixer. Heavy trigger pressure indicates that there is a blockage in the nozzles; any blockage must be removed, as further pressure can lead to seepage via the piston seals at the rear of the cartridges. Pressure can be relieved from the plunger by pressing the knurled lever under the back of the applicator 'upwards'. Lock static mixer into place.

Dispense a small amount (i.e. a 1"-2" (25-50mm) 'string') of Replicating Media onto a surface remote from the area of interest. This ensures that only correctly blended Replicating Media is applied to the area of interest. Remove any dirt or debris from area of interest. Using a weave pattern, apply the replicating medium to the clean subject surface (at the same time ensuring that each new thread of Replicating Media actually flows into the previous thread) until the area of interest is covered.

Allow the Replicating Media to cure. Cure times will be shorter at temperatures higher than 77 °F (25°C) and longer below 77 °F (25°C). Strong resistance to pressure means media is cured.

The static mixer should be left in place on a part-used cartridge of Replicating Media so that an effective seal is achieved, thus enabling the cartridge to be re-used.

## Additional information:

- Replicating Media is a two part elastomeric compound
- Combines good mechanical properties such as high tensile strength, tear resistance, and elongation resistance
- When used with normal precautions, poses no significant health risks
- Can be sputter coated for SEM applications.



**1045 Steel, etched with Nital, 25g and 50g Knoop (200x).**



**Replica of 1045 Steel, etched with Nital, 25g and 50g Knoop (200x).**

*For a complete listing of consumables, please refer to our Consumables Buyer's Guide. Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.*

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