

Compound Application Procedure

Compound Description:	<u>Proto-Reinforcement©</u>
Applicable Technologies:	<u>SLA, SLS, FDM, Digital Printed</u>
Revision Level:	<u>A</u>
Revision Date:	<u>March 2007</u>

Legend: ■ -Application Notes ● - Work Content ▲ -Inspection

- Proto-Reinforcement© is typically used in conjunction with Proto-Plasma-Rx™.
- Proto-Reinforcement© is a coating that is fast drying and easy to apply. When applied, this coating will soak into the part and will be about .0002" thick.
- DO NOT SHAKE can before use.
- The amount of penetration varies greatly depending on the porosity of the material to which it is being applied. The more porous materials will have greater penetration and the more dense materials will have less penetration.
- Open the can of Proto-Reinforcement© coating.
- Apply one coat of Proto-Reinforcement© coating with a brush directly on the SFF part surface.
- ▲ Inspect for runs and pooling in tight areas. Allow to dry for 1 minute between coats.
- Apply second coat of Proto-Reinforcement© coating.
- ▲ Inspect for runs and pooling in tight areas. Allow to dry at least 1 minute.
- Do not put more than 2 coats of Proto-Reinforcement© on SLA, FDM or Digitally Printed SFF parts.
- To gain extra strength in combination with other tempering materials on SLS and Starch, the part can be dipped, saturated or brushed with Proto-Reinforcement© coating to infiltrate the part completely. In this application, apply coats back to back or leave the part in a container of this coating until saturated.

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- It will take 12 hours for Proto-Reinforcement© to cure, but the part can be handled and shipped within one hour.
- Paint and plating can be applied over Proto-Reinforcement©.
- Never wait over an hour to apply the next layer of coating. This applies to the same or other tempering coatings and materials. This may damage the previous coat breaking down the chemical materials.