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TECHNICAL DATA SHEET- A-801 (PVA Clear)

PRODUCT INFORMATION

Product Name: A-801 (PVA Clear)

Product Code: A-801

Intended Use: Polyvinyl alcohol (PVA) release agent used to create a barrier film for mold release in silicone, acrylic, and resin processing.

1. OVERVIEW

A-801 PVA Clear is a polyvinyl alcohol release agent formulated to create a protective film barrier between prosthetic materials and mold surfaces. It ensures clean separation, reduces surface imperfections, and preserves the integrity of both the mold and cured silicone or acrylic appliances.

This product is non-hazardous, water-soluble, and ideal for use in both platinum and tin-cure silicone processing as well as acrylic and resin systems.

2. MATERIALS REQUIRED

Component	Description	Recommended Product
Release Agent	Forms a smooth film barrier between mold and casting material	A-801 (PVA Clear)
Application Tools	For even, bubble-free coating	Airbrush, HVLP spray gun, or soft brush
Mold Material	Compatible with silicone, acrylic, and resin molds	VST-50, VST-60, or equivalent
Cleaning Agent	Removes residue before or after demolding	A-830 (Acetone) or warm water
Curing Environment	Standard ambient conditions	Room temperature; avoid freezing

3. APPLICATION INSTRUCTIONS

1. Prepare the mold surface:

- Ensure the surface is clean, dry, and free of oils or debris.
- If required, wipe with A-830 Acetone to remove residues.

2. Mix and apply:

- Gently stir A-801; do not shake (to avoid bubbles).
- Apply a thin, even coat by airbrush or soft brush.
- Allow to dry completely—approximately 10–15 minutes at room temperature.
- For high-detail molds or extended casting runs, apply a second thin coat after the first dries.

3. Cure and casting:

- Once dry, proceed with silicone or acrylic casting.
- A-801 will form a clear, flexible barrier film that ensures easy release.

4. Cleanup:

- Clean brushes or spray equipment immediately with warm water or A-830 Acetone.
- Remove residual PVA film from molds by rinsing with warm water and gentle wiping.

4. NOTES FOR BEST RESULTS

- Apply in a low-humidity environment to prevent streaking.
- Avoid heavy buildup; multiple light coats provide a more uniform release surface.
- Compatible with both heat-cure and room-temperature vulcanizing (RTV) silicones.
- For ultra-smooth finishes, polish mold surfaces before coating.

5. SAFETY & HANDLING

- Non-hazardous and water-based formulation.
- Avoid prolonged inhalation of mist during spraying; use in a well-ventilated area.
- Wear gloves and eye protection during application.
- Storage: Keep container tightly closed in a cool, dry area; avoid freezing.

6. DISPOSAL & ENVIRONMENTAL INFORMATION

- Dispose of product and rinse water in accordance with local regulations.
- Do not pour directly into drains or waterways.
- Containers can be rinsed and recycled where facilities permit.

7. TECHNICAL DATA SUMMARY

Property	Specification
Appearance	Clear or light purple liquid
Odor	Mild
pH	4.5 – 6.5
Solubility	Fully water-soluble
Viscosity	50–100 cP
Flash Point	> 100 °C (non-flammable)
VOC Content	1 g/L (actual)
Storage Temp	10–30 °C (avoid freezing)

8. SAFETY CLASSIFICATION (FROM SDS)

- Not classified as hazardous per OSHA HCS or WHMIS 2015.
- Non-flammable, biodegradable, and stable under normal storage conditions.

9. REFERENCES

Based on Factor II Safety Data Sheet – A-801 (June 2018) and Factor II Technical Application Standards for Mold Release Systems.