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Data Sheet

TOOLPREP TP1 & TP2

Liquid Primer for Tool Surfaces

DESCRIPTION

ToolPrep TP1 & TP2 are low viscosity primers for preparation of tool surfaces to seal, protect and achieve high-quality finish ready for release agent application. After application and cure ToolPrep TP1 & TP2 coatings are non-removeable with solvent from the surface. The product is simple to apply and does not require polishing if applied correctly. ToolPrep TP1 & TP2 have been developed for Dahltram® 3D printed tooling but can be applied to other tooling types and provide a high gloss surface finish.

BENEFITS

- Seal and protect moulds and provide surfaces that Release Sealers & Release agents can be applied to.
- Cure under room temperature, simplified application and saves time.
- Can be used on 3D Printed tooling and other traditionally manufactured mould and patterns.

TECHNICAL DATA

	ToolPrep TP1	ToolPrep TP2
Composition	Resin solution	Resin solution
Density	0.9 g/cm^3	0.84 g/cm^3
Colour	Clear	Clear
Packaging	0.9 kg Bottle	0.9 kg Bottle
Storage conditions	Protect against frost, heat, direct sunlight	Protect against frost, heat, direct sunlight
Shelf life	18 months from date of shipment when stored in original packaging at 22°C	18 months from date of shipment when stored in original packaging at 22°C

APPLICATION

- For best results apply 3 layers ToolPrep TP1 followed by 1 layer ToolPrep TP2.
- Clean and dry mould surfaces prior to the application of ToolPrep TP1. Virgin or fresh repaired moulds can directly be coated. The surface should be dust free and free of grease residues.
- Apply ToolPrep on 1m^2 tool surface by wiping with a clean lint-free cloth. After about one minute, when the film is still moist, use a second dry cloth to absorb excess to leave clear and dry film is visible. If smears appear, reduce the time before wiping off excess.
- Apply thin layers to avoid cracking and stripes.
- Repeat procedure until all mould tool surface are evenly coated. Apply 3 or 4 layers of ToolPrep TP1 to obtain a smooth and homogenous coating. Good results can be obtained beginning to wipe along the mould outer border, moving toward the inside.
- Allow cure time of 45 minutes at a room temperature (22°C) after each coat is applied.
- Repeat procedure to apply final layer of ToolPrep TP2 and allow to cure.

NOTES

- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Airtech recommends testing prior to use.
- ToolPrep TP1 & ToolPrep TP2 can be used on individually for preparing tools surfaces, we recommend end user testing to determine suitability.
- Surfaces can be polished to improve finish after application if required, using 1000 grit paper.
- ToolPrep can only be removed by abrasion after cure.
- Users should test for compatibility with mould surfaces and release agents to be applied.

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