

Tputty™ 508/508MF Application Notes

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This application note provides general instructions for use for Tputty 508&508MF

global solutions : local support.

Corporate Contact: 1.636.898.6000

www.laird.com



Shipping and Storage

Shelf Life: Shelf life for Tputty 508(MF) is 6 months from date of manufacturing.

Storage Conditions: Recommended storage conditions are 0-35°C, at 50% maximum relative humidity. Tputty 508/508MF should be stored in original product packaging until ready for use. Tputty 508/508MF is designed so it will not settle during shipping or storage and therefore should not be remixed. A slight sheen of silicone oil is possible to develop on the surface of the material when supplied in pails and will be incorporated and dispersed in the Tputty 508/508MF material during the pumping/dispensing process.

Storage under High Pressure: Tputty 508/508MF should not be stored under high pressure dispensing conditions. If stored for long periods under pressure some separation may be noticed.

Use

Recommended Use: Tputty 508/508MF is a single part dispensable material designed with automation and vertical stability in mind. Laird has leveraged its knowledge of thermally conductive fillers and resin systems to develop a single part dispensable that demonstrates reliability in a variety of application orientations.

Tputty 508/508MF is ideal for applications that can benefit from automation and allows minimization of SKUs in applications with gap variability. In addition to providing application flexibility and variable gap adaptation, Tputty 508/508MF will exert minimum stress on your component while maintaining interface contact to maximize thermal transfer.

Preparation and Clean-up

Preparation for Use: Tputty 508/508MF is a one-part material and is ready to use out of the container. Make sure surfaces to be covered are clean and dry. Mixing of Tputty 508/508MF before use is not recommended; however, the flow rate may be lower than specified on the datasheet if dispensed at temperatures below 23°C.

Clean-up: Excess material can be cleaned up using a dry rag. Residual silicone oil can be removed using a clean rag and acetone solvent.

Exposure to solvents: Tputty 508/508MF is a silicone material filled with thermally conductive fillers. Exposure to organic solvents and strong bases can result in swelling or removal of the silicone carrier material resulting in degradation or loss of performance. For specific chemical resistance consult Chemical Resistance Tables for silicone materials such as the one listed at the following web address:

https://www.engineeringtoolbox.com/silicone-chemical-resistance-d_1879.html

First Aid

First Aid: Safe handling, disposal, and first aid measures are included in the SDS. Please read the SDS before using or handling this product. For further questions, please contact Laird.



Tputty 508(MF) Dispensing

Tputty 508/508MF can be dispensed with a variety of dispensing systems. The following is a partial list of recommended equipment for low and high-volume dispensing and typical results that can be expected.

PACKAGING SIZE	FILL VOLUME	AND WEIGHT
75cc (2.5 oz)	56 cc	177 g
180cc (6 oz)	159 сс	503 g
360cc (12 oz)	326 cc	1030 g
600cc (20 oz)	601 cc	1900 g
1 gallon	4110 cc	13 kg
5 gallon	6320 сс	20 kg

Nordson EFD Performus II Dispenser

Benchtop air pressure / time dispensing, handheld, for cartridges and syringes:



Manual dispensing

Manual hand dispensing gun for prototype with 30cc syringes:





Nordson Asymtek Dispense Mate Dispenser with Nordson EFD 736HPA-NV valve, material supplied by Nordson EFD Rhino bulk unloader

Benchtop air pressure / time dispensing, X-Y table, for cartridges, syringes, and pails







Graco UniXact Dispenser with Graco Dispensit valve, material supplied by Graco CheckMate Supply System or DynaMite pump

Workstation positive-displacement volumetric dispensing, X-Y table, for cartridges, syringes, and pails







Dispenser

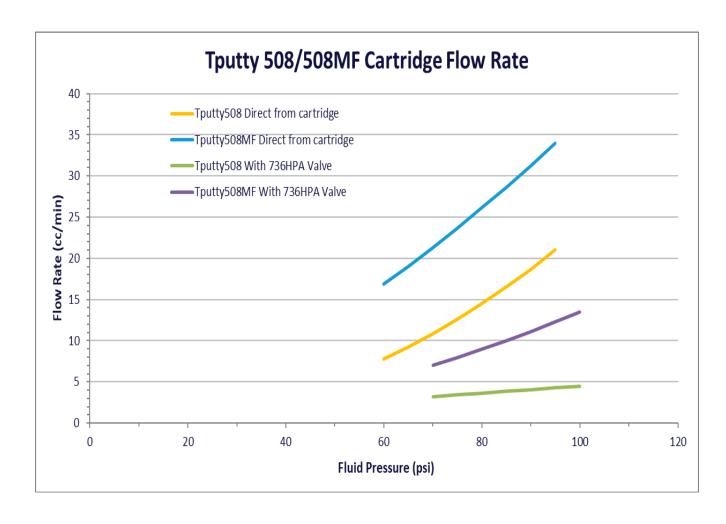
Dispensing Valve

PCP

High Pressure Pump

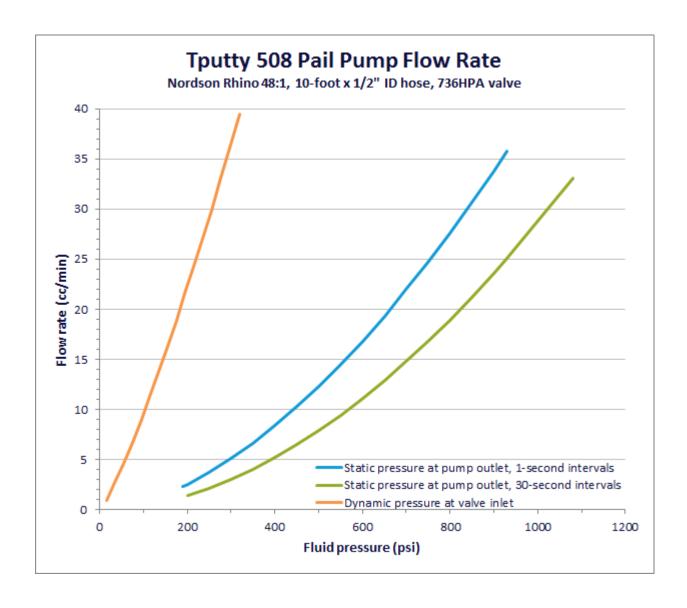


Typical Cartridge Dispensing Results (Low Volume Applications)





Typical Pail Dispensing Results (High Volume Applications)





Typical Pail Dispensing Results (High Volume Applications)

