

AVenhance Chemical Detack Additive - Usage

AVenhance is a chemical detack additive used with the AVantage® 32MLR photopolymer resin to help generate completely tack-free photopolymer printing plates. AVenhance is added directly into the washout unit and can affect how much foam is produced in the bath. Be aware that the typical amount of defoamer can be reduced by as much as 50%. Avoid using a germicidal treatment when using AVenhance.

Usage amounts: There are several factors that determine the correct amount of AVenhance to be used in a bath, including the total plate surface to be tack free. An I-Plate type corrugated plate will require less AVenhance than conventional corrugated plates. The size of the washout unit being used will also determine the required amount of AVenhance. The last factor is if the washout bath has a feed-and-bleed operation.

Amounts:

- Regular Bath, Conventional or I-Plate - 3048 @ 70 gallons - ½ gal. AVenhance.
- Regular Bath, Conventional or I-Plate - 5280 @ 150 gallons - 1 gal. AVenhance.

Washout Cycle Time: The recommended washout temperature for 32MLR is 110°-120°F for a period of 10-15 minutes.

Bath Life: The bath should last for approximately 10 to 15 plates, depending upon the amount of resin washed out after reclaiming. Generally, small plates that are 3048 in size will wash out about 1.5 lbs of liquid resin. Larger 5280 plates in size will wash out roughly 4.5 lbs of resin after reclaiming. An I-Plate may have 3 to 3.5 lbs on its surface after reclaim. The amount can be determined by weighing a plate before and after the washout phase. This will tell you the resin washout amount per plate. Knowing this is very useful to formulate the start-up bath with the required chemistries and estimating the plates per bath volume.