

## HIGH VISCOSITY MIXERS FOR AUTOMOTIVE SEALANT

In 1990, [Hayward Gordon](#) was approached by an automobile manufacture to design and build an agitator suitable for a high viscosity sealant for their car windshields. After receiving a sample of the material we performed viscosity and mixing tests and then scaled-up the results to determine the most appropriate mixer for the plant size unit. The sample had a specific gravity of 1.5 and a viscosity of around 100,000 cps.

The purpose of the mixer was to aid in heat transfer by creating strong top to bottom motion in a 100 gallon tank, at all possible liquid levels. [Hayward Gordon](#) supplied

the tank and mixer package using these criteria. The mixer selected is our HRF series 2 HP unit with a 29" diameter double flight helix with an output speed of 10 rpm, the surface finish on the impeller is glass bead blasted.

Since the first installation, [Hayward Gordon](#) has supplied over thirteen mixers ranging in size from 2 to 7.5 HP to automotive plants across North America. The Hayward Gordon mixer lab has helped engineers and end-users determine the optimum size mixer for their process to ensure the mixing requirements are met or exceeded.

