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TECHNICAL DATA SHEET

**Silmer<sup>®</sup> ACR Di-1508**  
Silicone Acrylate Functional Pre-polymer

**DESCRIPTION**

**Silmer<sup>®</sup> ACR Di-1508** is a water dispersible to insoluble di-functional silicone acrylate pre-polymer. It is used to modify acrylate and other free-radical cured polymers to improve surface and physical properties. It is also used as an additive in UV curing systems.

**TYPICAL PROPERTIES**

|                               |                          |
|-------------------------------|--------------------------|
| Appearance                    | Clear liquid             |
| Viscosity, cps                | 200                      |
| Active Content, %             | 100                      |
| Specific Gravity (25°C)       | 1.04                     |
| Water solubility @ 1% and 10% | Dispersible to insoluble |
| Molecular Weight, gm/mol      | 2100                     |
| Equivalent Weight             | 1050                     |

**Application & Uses**

**Silmer ACR Di-1508** can be co-reacted into acrylate polymers for coatings, plastics, resins and other applications to incorporate a silicone moiety into the polymer structure. When co-reacted during the polymerization stage, **Silmer ACR Di-1508** improves the surface and physical properties of the polymers. These benefits include better slip, anti-blocking, mar resistance, surface smoothness and flexibility. The acrylate functionality in **Silmer ACR Di-1508** gives a permanent binding into the matrix of the polymers. These same benefits can also be incorporated into UV cured systems or other free-radically cured systems such as polyolefins or acrylic emulsions.

For polymer modification, the typical recommended amount of **Silmer ACR Di-1508** ranges from 2-20%. As an additive in UV curing system, the recommended amount ranges from 0.1-1.5%.

**SHELF LIFE**

When stored in the original, unopened containers between 10 and 40°C, **Silmer ACR Di-1508** has a shelf life of 24 months from date of manufacture.

**PACKAGING**

**Silmer ACR Di-1508** is supplied in 20kg pails and 200kg drums.

**Legal Disclaimer**

**Siltech Corporation** believes that the information in this technical data sheet is an accurate description of the typical uses of the product. Siltech Corporation, however, disclaims any liability for incidental or consequential damages, which may result from the use of the product that are beyond its control. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

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