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TECHNICAL DATA SHEET

Silmer[®] ACR Di-4515-O
Silicone Acrylate Pre-polymer

DESCRIPTION

Silmer[®] ACR Di-4515-O is a 100% active cross-linkable silicone acrylate pre-polymer. It is used as an additive in UV/EB curing systems to improve the surface and physical properties of various polymers.

TYPICAL PROPERTIES

Appearance	Clear to hazy liquid
Viscosity @ 25°C	1,000 – 5,000
Active Content %	100
Specific Gravity @ 25°C	1.03
Water solubility @ 1% and 10%	Dispersible, dispersible
Diluents	Water, aliphatic and aromatic solvents
Molecular Weight	6,500
Equivalent Weight	3,000

Application & Uses

Silmer[®] ACR Di-4515-O can be cross-linked into various polymers that are used for coatings, plastics, resins and other applications to improve the surface and physical properties of the polymer. By incorporating a silicone moiety into the polymer structure, many benefits are achieved including improved slip, anti-blocking, mar/scratch resistance, surface smoothness and better release.

The acrylate functionality in **Silmer[®] ACR Di-4515-O** gives a permanent binding into the matrix of the polymers and prevents the silicone from migrating to the surface.

As an additive in UV/EB curing system, the recommended amount ranges from 0.2-2.0%.

SHELF LIFE

When stored in the original, unopened containers between 10 and 40°C, **Silmer[®] ACR Di-4515-O** has a shelf life of 24 months from date of manufacture.

PACKAGING

Silmer[®] ACR Di-4515-O 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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