

## Technical Data Sheet

Last revised: 01-2019

### DELTA-FC® 1525

**DELTA-FC® 1525** is a highly compatible silicone-based foam control additive specially formulated in emulsion form. It is particularly designed for water- and glycol-based pigment concentrates and universal colorants as well as water-based inks. **DELTA-FC® 1525** also finds use in low-PVC emulsion paints (glossy) and water-based clear varnishes.

#### **Specifications:**

|                         |  |
|-------------------------|--|
| Composition             | : Silicone-based emulsion with non-ionic surfactants |
| Specific gravity @ 20°C | : 0.95 – 0.99 g/cm <sup>3</sup>                      |
| Appearance              | : White emulsion                                     |

Methods of analysis can be received upon request

#### **Applications and usage:**

##### Coatings

**DELTA-FC® 1525** is a very effective foam control additive based on a highly compatible silicone emulsion with specially selected non-ionic surfactants.

**DELTA-FC® 1525** is very active in eliminating the existing foam and inhibiting its further formation. It controls the foaming tendency of surfactants during dispersion and further processing in water- and glycol-based pigment pastes and universal colorants.

For universal colorants and water-based pigment concentrates based on **DELTA-S® 5225** or **DELTA-DC® 3590**, **DELTA-FC® 1525** is particularly recommended as a foam control additive. Due to its stability in high shear processing, it functions well during the application of paints and inks.

**DELTA-FC® 1525** can efficiently be used in water-based inks as it shows no or minimal effects on film properties.

Being emulsifiable in water, **DELTA-FC® 1525** can also be used in low PVC emulsion paints (glossy). Although it is very effective in foam elimination in acrylic/water based clear varnishes, the influence of **DELTA-FC® 1525** upon the transparency of clear or non-pigmented systems should be evaluated.

Best results are obtained by adding the additive to the water or glycol solution before the foam generation. For paint applications, it is advisable to add a part of the dosage of **DELTA-FC® 1525** prior to processing and a part during the let-down stage.

**0.1-1.0%** on total formulation weight

#### **Safety and Handling:**

**DELTA-FC® 1525** should be handled in accordance with good industrial practice. Detailed information can be found in the Safety Data Sheet

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### Storage:

**DELTA-FC® 1525** should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 2 years from the date of manufacture. The production date is indicated on the container. Stir well before use as a slight sedimentation may occur after long storage time but this does not have any influence on the product performance.

### Packaging:

50 kg -190 kg non-returnable containers.

### Guiding formulations for universal colorants suited for architectural paints:

|                       | <b>PY 74</b> | <b>PB 15:3</b> | <b>PR 112</b> | <b>PG 7</b>  | <b>PR 101</b> | <b>PY 42</b> | <b>PW 6</b>  | <b>PBk 7</b> |
|-----------------------|--------------|----------------|---------------|--------------|---------------|--------------|--------------|--------------|
| Monoethyleneglycol    | 18.0         | 16.0           | 11.0          | 16.0         | 15.3          | 18.0         | 15.5         | 18.0         |
| <b>DELTA-S® 5225</b>  | <b>6.5</b>   | <b>10.0</b>    | <b>17.0</b>   | <b>10.0</b>  | <b>6.6</b>    | <b>7.7</b>   | <b>7.3</b>   | <b>4.5</b>   |
| Demi-Water            | 33.3         | 32.3           | 38.2          | 32.3         | 11.8          | 16.9         | 14.1         | 57.2         |
| NaOH (25% in water)   | 1.0          | 1.5            | 2.6           | 1.5          | 1.0           | 1.1          | 1.1          | 1.1          |
| <b>DELTA-FC® 1525</b> | 1.0          | 1.0            | 1.0           | 1.0          | 0.8           | 0.8          | 0.5          | 1.0          |
| Anti-settling         | --           | --             | --            | --           | 0.3           | 0.3          | 0.3          | --           |
| Preservative          | 0.2          | 0.2            | 0.2           | 0.2          | 0.2           | 0.2          | 0.2          | 0.2          |
| <b>Pigment</b>        | <b>40.0</b>  | <b>39.0</b>    | <b>30.0</b>   | <b>39.0</b>  | <b>64.0</b>   | <b>55.0</b>  | <b>61.0</b>  | <b>18.0</b>  |
| <b>Total weight</b>   | <b>100.0</b> | <b>100.0</b>   | <b>100.0</b>  | <b>100.0</b> | <b>100.0</b>  | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |