

# ACROFLOR<sup>®</sup> 3000

ACROFLOR 3000 is a styrene-acrylic emulsion utilizing non-zinc alternative crosslinking which provides high gloss, durable floor coatings with excellent resistance to chemicals, water, soil, and scuff and UHS burnish performance for low to high maintenance finishes.

**Chemical Nature**

Styrene-Acrylic emulsion

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**Properties**

**Typical Properties**

|  |            |                |
|--|------------|----------------|
| Appearance                             |            | White emulsion |
| Non-volatile at 145°C (2g, 30 minutes) | %          | ~ 40           |
| pH (at 25°C)                           |            | ~ 7.0-8.0      |
| Viscosity (at 25°C)                    | cps        | <50            |
| Density (at 20°C)                      | lbs/US gal | 8.7            |
| MFFT                                   | °C         | 68-72          |

\*These values should not be interpreted as specifications.

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**Application**

ACROFLOR 3000 is designed for application on commercial floors requiring long-lasting shine with the ability to be easily cleaned and maintained at high frequency. On floors where traffic is high or exposure to cleaners is frequent, floor finishes with ACROFLOR 3000 will protect and perform throughout cleaning cycles and UHS burnishing, providing a fast gloss response. With ACROFLOR 3000's ability to retain gloss and appearance, floors will require less effort and maintenance to shine. ACROFLOR 3000 offers the formulator the unique ability to develop high quality finishes without the use of zinc or alternative metal crosslinking and provides outstanding resistance to chemicals such as hand sanitizer and quaternary disinfectant cleaners.

Formulations can be optimized for a variety of flooring substrates such as vinyl, vinyl composite, terrazzo, and concrete and quarry tile.

**Starting Point Formula**

The following starting point formulation is recommended for an initial evaluation of ACROFLOR 3000. Additional optimization of the formulations may be desired to achieve maximum suitability for specific applications.

## ACROFLOR 3000 UHS HIGH GLOSS FLOOR COATING

| Materials                                 | Pounds        | Gallons       |
|---|---------------|---------------|
| <b>Add the following under agitation:</b> |               |               |
| Water                                     | 355.31        | 42.60         |
| Hydropalat® WE 3225                       | 0.76          | 0.09          |
| Diethylene Glycol Ethyl Ether             | 34.01         | 4.08          |
| Dipropylene Glycol Methyl Ether           | 18.15         | 2.29          |
| Tributoxy Ethyl Phosphate                 | 32.57         | 3.88          |
| ACROFLOR® 3000                            | 345.90        | 39.76         |
| ACROFLOR® 110                             | 17.81         | 2.00          |
| ACROFLOR® 10                              | 43.60         | 5.28          |
| FoamStar® ED 2522                         | 0.08          | 0.01          |
|   |               |               |
| <b>TOTAL</b>                              | <b>849.28</b> | <b>100.00</b> |

Recommend adding 0.01 % Kathon™ CG / ICP biocide for shelf stability. Kathon™ is a registered trademark of Dupont.

### FORMULATION ATTRIBUTES

|                 |                             |
|-----------------|-----------------------------|
| Solids          | ~22 % by wt.                |
| Density         | 8.48 lb/US Gal (calculated) |
| Polymer/ASR/Wax | 89/4/7                      |

#### Formulation Guidance

ACROFLOR 3000 has the capability to span low to high maintenance floor finishes and provide high gloss and UHS burnishability.

Alternative wax packages can be used. The guiding formulation recommends ACROFLOR 10, a harder polyethylene wax. Modification in slip resistance and burnishability can be achieved through incorporation of softer wax dispersions, like polypropylene waxes if needed or desired. P/A/W ratios of up to 11% wax have been shown to still provide performance features although levels of wax and composition should be determined for individual applications.

This product does require the use of an ASR resin of which ACROFLOR 110 is recommended. This aids in imparting better strippability to an aged finish.

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### Safety

#### General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

#### Safety Data Sheet

All safety information is provided in the Safety Data Sheet for ACROFLOR 3000.

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### Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

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