

## Alternatives to Fluorosurfactants

### Functional Approach

#### BACKGROUND

- » Fluorosurfactants are highly efficient at lowering surface tension
- » Market shifting away from fluorinated materials due to environmental persistence

#### STEPS FOR REPLACEMENT

- » Identify properties that are important for application
  - » Reduction of surface tension and increased slip
  - » Improved leveling
  - » Resistant to oils and dirt pick up
  - » Substrate and pigment wetting
  - » Hydrophobicity
  - » Anti-blocking
- » Based on most important properties, choose from the Munzing additives portfolio. *See reverse side.*



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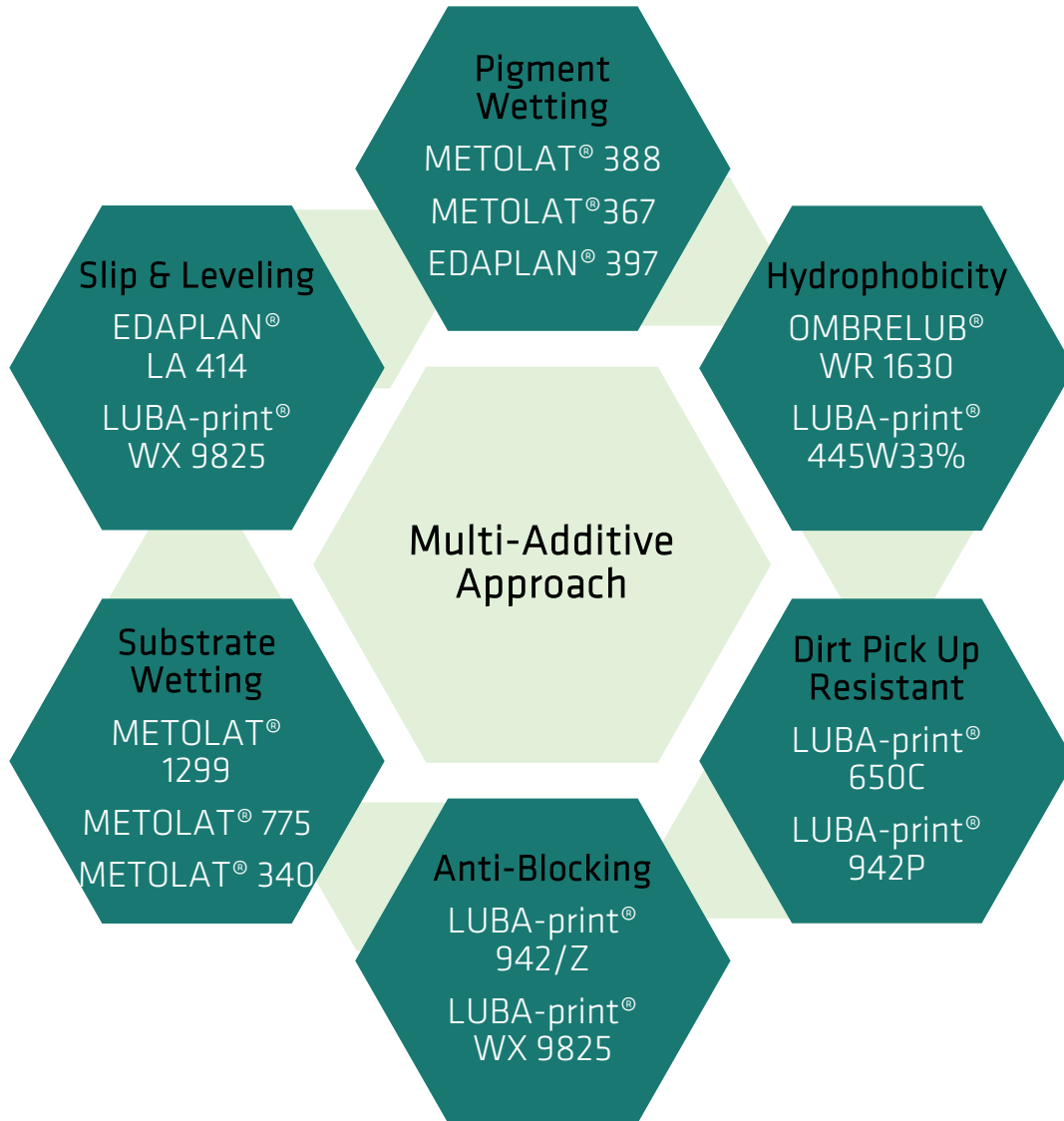


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# Creating Additive Value



Münzing offers various additives that provide functions that perform similarly to fluorosurfactants. 1:1 direct replacement may not be possible. The listed products may be used in combination to achieve the desired properties.



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