

## AHA1041

### Tailor-made silicone based textured additive for powder coatings

AHA1041 is a tailor-made silicone surfactant with extremely low surface tension absorbed on silica base plus solid acrylic resin capable of providing powder coating with special textured finishes such as distinct ruptures and craters.

#### 1. Specification

Appearance		fine white color powder
Bulk density	[g/l]	280-400
Volatiles (%)		≤0.5

#### 2. Characteristics

- Applicable to all kinds of interior & exterior based powder coatings with any film finishes included matt to high-gloss capable of providing distinct ruptures and craters or wrinkle.
- Comparison of conventional texture agent AHA1041 has so less surface tension and strongly disturbed effect that it provides distinct textured finishes possible on the matt film surface and applicable in cast iron or other big metallic work-pieces.
- Low use levels and consistent textured finishes.
- Post-addition recommended.

#### 3. Use levels

Approx. 0.2-0.6 % by weight, calculated on total formulation, depending on textured finish desired, such as pattern style and looser or tighter. The more added, the tighter pattern exhibited, otherwise looser and sparser.

#### 4. Incorporation

Post-addition recommended. Proper base powder should be formulated by extruder in advance, then blending AHA1041 into such base powder under low shear conditions.

#### 5. Suggested formulation

1) Base powder

<u>Formulation</u>	<u>matt</u>	<u>gloss,</u>	<u>parts by weight</u>
Epoxy resin (E-12)	60	30	
Polyester	/	30	
AHA68	6	/	

Notice:

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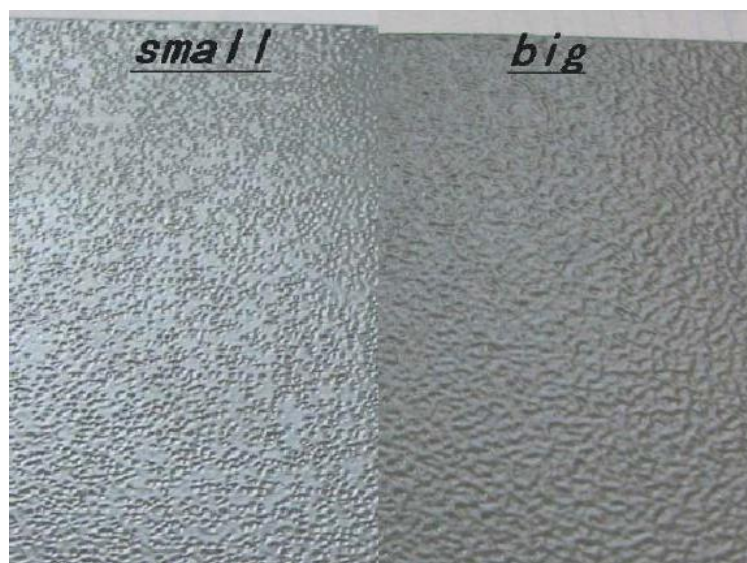
BaSO <sub>4</sub> *	33	39
Carbon black	1	1
PE wax	0.5	0.5

2) Post addition [dry blending]:

0.2-0.6% of AHA1041 by weight based on total formulation

\* Fillers loads maybe changed, the more added the tighter texture effect showed, whereas the less the looser.

Pattern style: see below panels:



## 6. Storage

Store in cool and dry place to avoid wetting-absorption. Keep package closed after using.  
Keep away from fire.

## 7. Package

Packing with PE lined paper-plate drum. Net weight 25 Kg per drum.

### Attention

*AHA1041 will cause contamination of any powder coating resulting in film defaults due to silicone surfactant, have to be kept in a separated unit when treatment as well as away from other coating ingredients.*

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