

## Witcobond® 386-03

CC13001

An aliphatic polyurethane dispersion for 2K masonry coating

**Witcobond 386-03** is a water-based, solvent-free, anionic polyurethane dispersion that will produce high clarity, high performance protective topcoat finish for masonry and terrazzo applications. When cross-linked with a polyaziridine cross-linker like Witcolink AZ-28 excellent abrasion and chemical resistance can be achieved. Excellent gloss retention on outdoor exposure is also expected.

### Typical Dispersion Properties

Solids Content (%)	38 - 41
pH at 25°C	7 – 9
Viscosity at 25°C (cps)	50 - 400
Appearance	Semi-colloidal
Polyurethane Dispersion Type	Aliphatic, polyester, anionic
Co-solvent: % / Type	0
Specific Gravity at 25°C	1.05
Minimum Film-Forming Temperature (°C)	0

### Typical Guide Formulation

	<u>Parts</u>	<u>Supplier</u>
<b>Part A:</b>		
<b>Witcobond® 386-03</b>	100	Chemtura
<b>Foamex® 805</b>	0.2	Tego Chemie
<b>Capstone® FS-31</b>	0.1	DuPont
<b>Byk® 346</b>	0.5	BYK Chemie
<b>Acrysol™ RM825 (Rheology Modifier)</b>	As needed to adjust viscosity	Dow Chemicals
<b>Part B:</b>		
<b>Witcolink AZ-28</b>	2.0	Chemtura

\*Formulation is coalescent free and is cross-linked with Witcolink AZ-28, added at point of application for optimum performance. Pot life after cross-linker addition is 18-24 hours.

### Formulation Properties:

Weight Solids, % - 40.8  
V.O.C, g/l (Less Water) - 37.2

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## **Formulated Film Properties**

Tensile strength (psi) / (MPa)	4500 / 30
100 % Modulus (psi) / (MPa)	2900 / 20
Ultimate Elongation (%)	350
60° Gloss Measured On Free Film (%)	108
Hardness: Konig / Sward / Pencil	110 / - / 3H

## **Gloss Retention After 300 Hours U.V Exposure (QUV B Lamp)**

<b>60° Gloss Values (%)</b>	
<i>Initial</i>	<i>After 300 Hours</i>
108	109

Witcobond® 386-03 is manufactured and distributed by Chemtura Corporation and its subsidiary company, Baxenden Chemicals Limited.



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