www.witcobond.com

Effective: *15-07-2014*

Witcobond® 386-03

CC13001

An aliphatic polyurethane dispersion for 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

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

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

Taber Abrasion

Taber Abrasion On Wood Panel	Weight Loss
After 500 Revs Using CS-17 wheels and 1Kg Load	0.010g

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

Formulated coating thickness on the panels tested was 35 gsm.

60° Gloss Values (%)	
Initial	*After 300 Hours*
108	109

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

Chemtura
199 Benson Road
Middlebury, CT 06749, USA

APAC: +86 21 386 665 26
EU: +44 1905 794 795
Korea: +82 2 5413806

NA: +1 877 873 0273
Central America: +52 55 5010 6607
Latin America: +55 19 3522 5082

Baxenden Chemicals Limited
Union Lane,
Droitwich, WR9 9BB, UK