

Witcobond® 386-03

MC12001

An aliphatic polyurethane dispersion for 1K anti-corrosive metal coatings

Witcobond 386-03 is a water-based, solvent-free, anionic polyurethane dispersion that will produce high clarity, high performance protective topcoat finishes for light maintenance anti corrosive coatings for direct to metal applications. Excellent performance properties can be achieved in a 1K solvent free formulation.

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>
Part A:		
Witcobond® 386-03	100	Chemtura
Foamex® 805	0.17	Tego Chemie
Foamex® 810	0.13	Tego Chemie
Byk® 346	0.5	BYK Chemie
Nacorr 1754	2.0	King Industries
Halox SZP-391	7.0	Halox
Part B:		
Water	As needed to adjust viscosity	

Formulation Properties:

Weight Solids, % - 42.8
 Pigment Volume Concentration, % - 6.3
 V.O.C, g/l (Less Water) - 37.2

Make sure when adding Nacorr 1754 to incorporate it very slowly into the mix under high speed stirring. The Halox SZP-391 should be added using a high speed disperser so that it is uniformly distributed in the dispersion. Part A should be allowed to be dispersed for least 20 minutes to achieve Hegman 7 finess of grind.

The information contained herein relates to a specific Chemtura product and its use, and is based on information available as of the date hereof. Additional information relating to the product can be obtained from the pertinent Material Safety Data Sheets. Nothing in this Technical Data Sheet shall be construed to modify any of Chemtura's standard terms and conditions of sale under which the product is sold by Chemtura. NOTHING IN THIS TECHNICAL DATA SHEET SHALL BE CONSTRUED TO CONSTITUTE A REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE PRODUCT'S CHARACTERISTICS, USE, QUALITY, SAFETY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein shall constitute permission or recommendation to practice any intellectual property without the permission of the owner.

Chemtura and the Chemtura logo are trademarks of Chemtura Corporation or one of its subsidiaries.

Copyright © 2012 Chemtura Corporation. All rights reserved.

Formulated Film Properties

Tensile strength (psi) / (MPa)	6000 / 40
100 % Modulus (psi) / (MPa)	2900 / 20
Ultimate Elongation (%)	380
60° Gloss (%)	89
Hardness: Konig / Sward / Pencil	110 / - / 3H

Formulation Performance On Q Aluminum Panel After 7 Days Ambient Cure

	Q Panel Aluminum
MEK Double Rubs	<100
Alcohol Double Rubs	<100
# Adhesion	100%
Approximate tack-free time at 15 – 25°C (Minutes)	15

Anti-Corrosion Performance- After 300 Hours Exposure in salt spray cabinet:

As Per Formulation

With 3%Nacorr 1754

Coating wetting agents only



The information contained herein relates to a specific Chemtura product and its use, and is based on information available as of the date hereof. Additional information relating to the product can be obtained from the pertinent Material Safety Data Sheets. Nothing in this Technical Data Sheet shall be construed to modify any of Chemtura's standard terms and conditions of sale under which the product is sold by Chemtura. NOTHING IN THIS TECHNICAL DATA SHEET SHALL BE CONSTRUED TO CONSTITUTE A REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE PRODUCT'S CHARACTERISTICS, USE, QUALITY, SAFETY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein shall constitute permission or recommendation to practice any intellectual property without the permission of the owner.

Chemtura and the Chemtura logo are trademarks of Chemtura Corporation or one of its subsidiaries.

Copyright © 2012 Chemtura Corporation. All rights reserved.

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

The information contained herein relates to a specific Chemtura product and its use, and is based on information available as of the date hereof. Additional information relating to the product can be obtained from the pertinent Material Safety Data Sheets. Nothing in this Technical Data Sheet shall be construed to modify any of Chemtura's standard terms and conditions of sale under which the product is sold by Chemtura. NOTHING IN THIS TECHNICAL DATA SHEET SHALL BE CONSTRUED TO CONSTITUTE A REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE PRODUCT'S CHARACTERISTICS, USE, QUALITY, SAFETY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein shall constitute permission or recommendation to practice any intellectual property without the permission of the owner.

Chemtura and the Chemtura logo are trademarks of Chemtura Corporation or one of its subsidiaries.

Copyright © 2012 Chemtura Corporation. All rights reserved.