

A FORMULARY OF ADHESIVES AND OTHER SEALANTS

Compiled by

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PREFACE

Through the cooperation and contribution of major adhesive raw material manufacturers, we are pleased to present a formulary devoted entirely to a variety of adhesives and sealants. The purpose of this compilation is not to educate the reader as to the physical and chemical nature of adhesive ingredients but to make available a catalog of formulas reflecting the current technology in the adhesives industry.

The formulas herein should be considered starting-point preparations and thereby used as the basis for further experimentation in the development of new adhesive products.

The book is organized so that each chapter deals with major adhesive applications. Within each chapter the formulas are further subdivided according to their specific use and chemical composition.

Unless otherwise specified, all formulas have the quantities of ingredients given in parts by weight. A list of abbreviations that are used throughout the formulary is included. All constituents appearing by their tradename are printed in boldface type, and the manufacturers' names and addresses appear after the list of alphabetized tradenames in the appendix.

ABBREVIATIONS

@.....	at
approx.....	approximately
aq.....	aqueous
ASTM.....	American Society for Testing and Materials
Bé.....	Baume
b.p.....	boiling point
C.....	degrees Centigrade
ca.....	circa
cc.....	cubic centimeter
cm.....	centimeter
conc.....	concentrated
cP.....	centipoise(s)
cps.....	centipoise(s)
cs.....	centistoke(s)
F.....	degrees Fahrenheit
fl oz.....	fluid ounce
ft.....	foot
g.....	gram
gal.....	gallon
h.....	hour
ht.....	height
in.....	inch
l.....	liter
m.....	meter
M.....	mole
max.....	maximum
med.....	medium
min.....	minute
min.....	minimum
ml.....	milliliter
mm.....	millimeter
m.p.....	melting point
m.w.....	molecular weight
N.....	newton
neut.....	neutralized
NF.....	National Formulary

no.....	number
NV.....	nonvolatile
O/W.....	oil-in-water
oz.....	ounce
Pa.....	pascal
pbw.....	parts by weight
pH.....	hydrogen-ion concentration
phr.....	parts per hundred resin
ppm.....	parts per million
psi.....	pounds per square inch
PVC.....	polyvinyl chloride
q.s.....	quantity sufficient to make
qt.....	quart
rh.....	relative humidity
rpm.....	revolutions per minute
RT.....	room temperature
s.....	second
sol'n.....	solution
Tw.....	Twaddell
USP.....	United States Pharmacopeia
visc.....	viscosity
W/O.....	water-in-oil
wt.....	weight
XXX.....	triple pressed
μ	microns
\approx	approximately
#.....	number
%.....	percent
>.....	greater than
\geq	greater than or equal to
<.....	less than
\leq	less than or equal to

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Chapter I

ADHESIVES FOR PAPER

Pressure-Sensitive Labels

Formula No. 1

(*Rubber/Resin*)

Kraton®	100
Wingtack® 95	140
Shellflex® 371	40
Irganox® 1010	2

No. 2

(*Permanent, Rubber/Resin*)

SBR-1011	100.0
Super Sta-Tac® 0-80	150.0
Nonstaining Antioxidant	1.5
Toluene	200.0
Hexane	200.0

Properties:

Solids Content	38 ± 1%
Visc. (Brookfield)	1800–2200 cps

No. 3

(Polyvinyl Isobutyl Ether)

Lutonal IC 125	30.0
Lutonal I 60	40.0
Lutonal I 30	10.0
Vulcanox® ZKF	0.5
Mineral Spirit (b.p. 65–95 C)	≈ 150.0

No. 4

(Vinyl-Isobutyl Ether)

Lutonal IC 30	30.0
Lutonal I 60	60.0
Lutonal IC 125	30.0
Vulcanox® ZKF	1.0
Mineral Spirit (b.p. 65–95 C)	≈ 120.0

No. 5

(Water-Soluble, Vinyl Ether/Resin)

Acronal 880 D	50
Acronal 500 D	30
Lutonal M 40 (≈50% in water)	20
Lutensol AP 6	1
Toluene	5

No. 6

(Peelable, Acrylic Resin)

Acronal 4 D	90
Acronal 80 D	10

No. 7

(Peelable, Acrylic Resin)

Acronal 4 L (\approx 25% in acetone/mineral spirit)	90
Acronal 4 L (\approx 50% in ethyl acetate)	10

No. 8

(Peelable, Acrylic Resin)

Acronal 4 L (\approx 25% in acetone/mineral spirit)	90
Staybelite® Ester 10 (30% sol'n. in toluene)	10

No. 9

(Peelable, Acrylic Resin)

Acronal 103 L	100.0
Basonat A 270	0.5

No. 10

(Removable, Acrylic Resin)

Acronal 4 D	100
Palatinol® AH	20

No. 11

(Water Removable, Acrylic Resin)

Acronal 500 D	30
Acronal 880 D	50
Lutonal M 40 (50% in water)	20
Lutensol® AP 6	1

Note:

This adhesive loses its adhesion on short contact with water. It is re-emulsified, but not dissolved.

Tychem®.....	122	Vinsol®	78
Tylac®.....	122	Vistanex.....	56
Tylose MHB.....	10	Volclay 200.....	8
Ucar®.....	147	Vulcabond.....	155
Ultraflex®.....	78	Vulcafor	155
Ultrathene.....	151	Vulcanox®	95
Unicel.....	50	Vulcarite.....	26
Union Carbide A-112.....	147	Vulkanox.....	90
Unithane.....	143	Vynathene	151
Vanox.....	152	Weston™	28
Varcum®.....	122	Whitetex Clay.....	58
Varsol No. 1.....	56	Wingstay.....	70
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