Product information

ANCAMIDE® 702B75

Curing Agent

DESCRIPTION

Ancamide 702B75 curing agent is a member of a new series of reactive polyamides developed for use in the curing of epoxy resins in solvent-based surface coatings applications. Ancamide 702B75 curing agent is an epoxy adduct of the low viscosity polyamide curing agent, Ancamide 351A, supplied as a 75% solids by weight solution in n-butanol. Special features of this pre-adducted polyamide include; good epoxy resin compatibility without induction; excellent adhesion and cure under adverse conditions.

TYPICAL PROPERTIES

| Property | Value | Unit | Method |
|-------------------------|--------------------|----------|---|
| Appearance | Clear amber liquid | | |
| Colour | 8 max | Gardner | ASTM D 1544-80 |
| Viscosity @ 25°C | 4,000-8,000 | mPa.s | Brookfield RVTD, spindle 4 |
| Amine Value | 245±15 | mg KOH/g | Perchloric Acid Titration |
| Specific Gravity @ 21°C | 0.96 | | |
| Equivalent Weight | 170 | AHEW | |
| Recommended use Level | 90 | PHR | Theoretical value with Bisphenol A diglycidyl |
| | | | ether(EEW=190) |
| Solids Content | 75±1 | % | |

ADVANTAGES

- Good corrosion resistance
- Fast touch dry
- · Good colour and light stability
- Good adhesion

APPLICATIONS

- High solid marine and protective coatings
- Primers, sealers and coatings for concrete



SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers. Do not freeze.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamide 702B75 curing agent.

TYPICAL HANDLING PROPERTIES

| Property | Value | Unit | Method |
|-----------------------------|--------------------|------------------|---|
| Primer formulations 32.5% P | VC Liquid Epoxy Re | esin (80phr, 90% | stoichiometric loading) |
| Set to touch (finger) | 1.5 | h | |
| Hard dry thumb twist | 3.5 | h | |
| Pot Life | 3 | h | Paint formulation, time to double in viscosit |
| Perzoz Hardness | 240 | | |
| Direct impact | 69 | in.lb | |
| Reverse impact | 3.5 | in.lb | |

TYPICAL PERFORMANCE PROPERTIES

| Property | Value | Unit | Method |
|-----------------------------|--------------------|-----------------|--|
| Primer formulations 34% PVC | C. Semi Solid Epox | y Resin EEW 375 | 5 (40phr, 90% stoichiometric loading) |
| Set to touch (finger) | 1.0 | h | |
| Hard dry thumb twist | 3.0 | h | |
| Pot Life | 5 | h | Paint formulation, time to double in viscosity |
| Perzoz Hardness | 220 | | |
| Direct impact | 174 | in.lb | |
| Reverse impact | 10 | in.lb | |



SUPPLEMENTARY DATA

Ancamide® 702B75 curing agent is low viscosity, solventbased polyamide adduct, supplied at 75% solids in n-butanol. The product is intended for use with a variety of epoxy resin types in the development of high performance, corrosion resistant coatings for the protection of steel and concrete. When used with a semi-solid epoxy resin (EEW 300-380), Ancamide 702B75 curing agent offers fast lacquer dry, rapid mechanical property development, good adhesion to the steel substrate and excellent long-term humidity and corrosion resistance.

In addition, Ancamide 702B75 curing agent exhibits excellent compatibility with liquid epoxy resins and therefore high solid, solvent-based coatings can be formulated using this product, which can then be used for a wide variety of industrial maintenance and marine applications.

Ancamide 702B75 curing agent has a theoretical loading with standard bisphenol A diglycidyl ether resin of 90 phr, however, for optimum performance it is recommended that the Ancamide 702B75 curing agent be used at or below stoichiometry. Where good corrosion and humidity resistance are required, it is recommended to use less than the stoichiometric ratio and to use the curing agent in the 70-80 phr range, with an epoxy resin EEW of 190.

Ancamide 702B75 curing agent, like other polyamide curing agents, is highly soluble in polar solvents such as n-butanol, glycol ethers and ketones. Ancamide 702B75 curing agent does, however, exhibit lower solubility in aromatic solvents, such as xylene, therefore it is important when developing coating formulations to maintain a suitable balance of polar and nonpolar solvents. This is particularly important because as pot life progresses and molecular weight increases, stronger solvents may be needed to maintain good solubility of the polyamide-epoxy resin polymer. The addition of benzyl alcohol or propylene glycol phenyl ether (PPh) can also be beneficial, in that these materials will improve the initial compatibility of Ancamide 702B75 curing agent with epoxy resin, minimizing any induction time.

Formulations based on Ancamide 702B75 curing agent can also be accelerated to enhance dry speed both at ambient at low temperature, using Ancamine® K54 accelerator. Levels can be varied to achieve the desired dry speed properties, with the preferred level in the 2.5-5.0% range based on Ancamide 702B75 curing agent loading.

STARTING POINT FORMULATIONS

Appendix 1 contains preliminary starting point formulations based on Ancamide 702B75 curing agent for a series of anticorrosive primers and top coats. When pigmented, coatings cured with Ancamide 702B75 curing agent exhibit a fast lacquer dry, as measured using the "finger" dry to touch method, where coatings are dry to touch in less than 2 h. Using the "Beck Koller" method, dry-hard times range from 2-3 h depending upon the system tested, when applied and cured at 23°C. As with all solvent-based coatings, dry times are influenced by solvent choice, so dry times may vary depending upon the ratio of polar and non-polar solvents incorporated into the coating formulation. Pot life as measured by the time for the mix to double in viscosity corresponds to 3 h for a formulated coating based on liquid epoxy resin and 5 h for a coating formulated with a semi-solid epoxy resin. Such results are typical for this type of polyamide system.



Formulation A702B75P1 is a medium volume solids (62%), anti-corrosive primer, based on liquid bisphenol A diglycidyl ether (EEW 190). The formulation has a 2:1 mix ratio by volume, based on epoxy resin to amine hardener. The initial viscosity of the formulated resin base is 3,000mPa.s and the mix viscosity of the system is 1000mPa.s with a total VOC of 320g/l. The primer formulation is compatible with a variety of different let down solvents (including xylene, n-butanol, MIBK, methoxy-propanol, etc) and can be further let down if required for additional spray applications. The coating formulation can be applied with conventional spray equipment or brush applied to the steel substrate and has a pot life of 3 h. After application the primer is tack free after 2 h and dry to handle (thumb twist) after 5 hrs, following cure at 23°C.

Formulation A702B75P2 is a medium volume solids (55%), anti-corrosive primer, based on a semi-solid, bisphenol A diglycidyl ether mixture (EEW 375). The formulation has a 3:1 mix ratio by volume, and a VOC of 380g/l. The coating formulation can be applied with conventional spray equipment or brush applied to the steel substrate and has a pot life of 4 h. After application the primer is tack free after 1 hr and dry to handle after 3 h, following cure at 23°C.

Formulation A702B75P3 is a low volume solids (48%), anticorrosive primer, based on a modified solid bisphenol A diglycidyl ether (EEW 525). The formulation has a 4:1 mix ratio by volume and a VOC of 485g/l. The coating formulation can be applied with conventional spray equipment or brush applied to the steel substrate and has a pot life of 6 h. After application the primer is tack free after 1 hr and dry to handle after 3 hrs following cure at 23°C.

Formulation A702B75W1 is a medium volume solids (57%), medium PVC (29%) white top coat based on a modified solid epoxy resin (EEW 525). This formulation demonstrates the utility of the Ancamide 702B75 curing agent for use as either a tie coat or a top coat for primer systems.

The formulations on page 2 have been evaluated for corrosion resistance properties using salt spray, humidity and prohesion resistance accelerated weather tests. After 1000 h exposure, coatings exhibit excellent corrosion resistance. The primer system based on the solid epoxy resin was also tested after overcoating with the white topcoat. The two coat system exhibited >1000 h salt spray and salt water immersion resistance. For comparative purposes, Ancamide 700B75 curing agent was also included in the test study as the "industry standard" reference. In all the corrosion resistance tests, both Ancamide 702B75 and Ancamide 700B75 curing agents demonstrated comparable performance.

PERFORMANCE EVALUATION

All coatings were evaluated in 5% salt spray, and in continuous humidity at 35°C. They were also evaluated using a prohesion - cyclic weathering tester, and Cleveland - constant humidity exposure, following a 10 day ambient cure of applied coatings. In addition the two coat system (A702B75P3 overcoated with A702B75W1) was assessed for 1000 h corrosion resistance following immersion in a 3.5% NaCl salt solution.



Primer coatings were applied to grit blasted, hot rolled steel (SA2.5), using conventional spray equipment, in double coats to give coatings with a 75-100#m (3-4 mils) dry film thickness (DFT). Where multi-coat systems were tested, the primer was over coated with a white-enamel via spray application in order to achieve a total dry film thickness of approximately 200#m (8 mils). In salt spray, (ASTM B-117) panels were scribed and evaluated for field blisters using the US Federal Standard Test Method 141a, Method 6461 and the scribe creep was rated in accordance with ASTM D-1654. Similar evaluations were made for panels placed in the prohesion cabinet (ASTM G8594). Panels exposed to humidity and salt solution immersion, were also scribed and coatings were also assessed for scribe damage, blistering and for changes in visual appearance.

CORROSION RESISTANCE

Anti-corrosion resistant primers based on Ancamide 702B75 and Ancamide 700B75 curing agents, were evaluated for salt spray, salt water immersion and constant humidity resistance. The results obtained are presented in Table 5-7.

SALT SPRAY RESISTANCE — ANCAMIDE 702B75 AND ANCAMIDE 700B75

| Formulation | Scribe | Creep | Field Blistering | | |
|-----------------|--------|-------|------------------|-------|--|
| | 1000 h | 1500h | 1000 h | 1500h | |
| A702B75P1 | 10 | 9 | 10 | 6F | |
| A700B75P1 | 10 | 9 | 10 | 4F | |
| A702B75P2 | 10 | 10 | 10 | 4F | |
| A700B75P2 | 10 | 9 | 10 | 6F | |
| A702B75P3 | 10 | 10 | 4F | | |
| A702B75P3 | 10 | 10 | 4F | | |
| A702B75 (P3/W1) | 10 | | 10 | | |
| A700B75 (P3/W1) | 10 | | 10 | | |

5% salt spray, cabinet temperature 35°C - ASTM B-117, film thickness 75-100μ; Rating: ASTM D714: 10 = Best (no blisters), 0 = Worst, F= few



SALT WATER IMMERSION — ANCAMIDE 702B75 AND ANCAMIDE 700B75

| Formulation | Scribe Creep | Field Blistering | Appearance |
|-----------------|--------------|------------------|------------------|
| A702B75P1 | 10 | 6F | Slight blanching |
| A700B75P1 | 10 | 6F | Blanching |
| A702B75P3 | 10 | 4F | Slight blanching |
| A700B75P3 | 10 | 4F | Slight blanching |
| A702B75 (P3/W1) | 10 | 10 | Slight rusting |
| A700B75 (P3/W1) | 10 | 10 | Slight rusting |

3.5% NaCl solution at 23°C

Film thickness 75-100µ. Rating: 10 = Best, 0 = Worst

For blister size, rating 10= no blisters observed: F= Few blisters

CLEVELAND HUMIDITY — ANCAMIDE 702B75 AND ANCAMIDE 700B75

| Formulation | Scribe Creep | Field Blistering | Appearance |
|-------------|--------------|------------------|------------|
| A702B75P1 | 10 | 10 | No defects |
| A700B75P1 | 10 | 10 | No defects |
| A702B75P3 | 10 | 10 | No defects |
| A700B75P3 | 10 | 10 | No defects |

Continuous 100% humidity exposure—ASTM D-2247, cabinet temperature 50°C

Film thickness 75-100 μ . Rating: 10 = Best, 0 = Worst

For blister size, rating 10 = no blisters observed

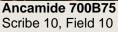
PERFORMANCE RESULTS

Ancamide 702B75 curing agent can readily be formulated into a wide range of anti-corrosive primers and top coats depending upon the epoxy resin system required. General handling properties of the formulated coatings are comparable to Ancamide 700B75 curing agent and coatings can easily be applied using a range of application methods such as brush, roller and spray application. In accelerated weather testing, corrosion resistance indicates that Ancamide 702B75 curing agent delivers the high level of corrosion resistance typically observed for this class of polyamide adduct. Resistance up to 1000h resistance was easily achieved for all systems tested with no noticeable damage around the scribe during this period. Primer panels after 1500h exposure did demonstrate some minor scribe damage and panels also began to show the early development of field blistering, however, the results obtained with Ancamide 702B75 curing agent were comparable to those obtained with the standard reference, Ancamide 700B75 curing agent. The test data shows that multi-coat systems, based on the Ancamide 702B75 curing agent, also deliver excellent protection. Primer panels over coated with a white Titanium dioxide based enamel, showed no signs of damage following 1000h accelerated salt spray exposure. In addition exposure to both constant humidity ad immersion in a NaCl (3.5%) salt solution indicates that the curing agent can be formulated into barrier coatings offering a high level of protection, thus making Ancamide 702B75 curing agent an excellent choice in the area of metal protection.



CORROSION RESISTANCE FOLLOWING 1000H ACCELERATED SALT SPRAY EXPOSURE Anti-corrosive Primer A700B75P1 and A702B75P1







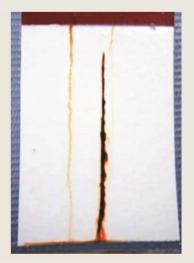
Ancamide 702B75 Scribe 10, Field 10

Coatings applied using conventional spray equipment. 2 coatings applied to achieve total dry film thickness 75-100 μ m

Anti-Corrosive Primer A700B75P3 and A702B75P3 over coated with White Top Coats A700B75W1 and A702B75W



Ancamide 700B75 Scribe 10, Field 10



Ancamide 702B75 Scribe 10, Field 10

Coatings applied using conventional spray equipment. 2 primer coatings applied to achieve total dry film thickness 75-100 μ , followed by top coat to give a total dry film thickness ~200 μ m



APPENDIX I PRIMER FORMULATIONS

ANCAMIDE 702B75P1 ANTI-CORROSIVE PRIMER BASED ON LIQUID EPOXY RESIN EEW 190. CURING AGENT LOADING 90% OF THEORETICAL STOICHIOMETRY

| Nb. | A-Component (g) | | | Anti-Corrosive Primer |
|-----|-----------------|---------------------------------|---------|-----------------------|
| 1. | Epoxy Resin | Bis A diglycidyl ether (EEW190) | | 250.00 |
| 2. | Settling agent | Antiterra U | | 5.00 |
| 3. | Thixotrope | Bentone SD-2 | | 8.00 |
| 4. | Solvent | Xylene | | 127.00 |
| | | n butanol | | 40.00 |
| 5. | Filler | Blanc fix micro | | 160.00 |
| 6. | Filler | Microtalc mica W1 | | 100.00 |
| 7. | Filler | Heucophos ZP10 | Heubach | 100.00 |
| 8. | Filler | Bayferrox 130M | Bayer | 90.00 |
| 9. | Filler | Wollastocoat 10ES | | 120.00 |
| | | | | 1,000.00 |

A-Component Manufacture Procedure:

- Charge components 1-4 and stir homogeneous at low shear
- Slowly add components 5-9 and then mix under high shear for 30 mins until Hegman gauge 7 is achieved

| Nb. | B-Component (g) | | | |
|----------|-----------------|-----------------|--------|----------|
| 1. | Curing Agent | Ancamide 702B75 | Evonik | 202.00 |
| 2. | Curing Agent | Ancamine K54 | Evonik | 6.00 |
| 3. | Solvent | Xylene | | 57.50 |
| 4. | Solvent | Dowanol PM | | 18.50 |
| <u>'</u> | | | | 284.00 |
| Total | | | | 1,284.00 |

After mixing Part A and B, apply a 15-30 minute induction time prior to application.



| Mixing ratio | weight | 3.5 :1 | Pot-life | h | 3 |
|--------------------------|----------|--------|----------------------|--------|------|
| | volume | 2.0 :1 | | | |
| Density (g/ml) | - Part A | 1.64 | Gloss (60°) | | 45 |
| | - Part B | 0.95 | | | |
| | -Mix | 1.41 | | | |
| Solid Content (Weight %) | - Part A | 83.3 | BK Dry time 23°C | | |
| | - Part B | 55.5 | Phase I | h | 1.30 |
| | -Mix | 77.1 | Phase II | h | 4.00 |
| Solid Content (Volume %) | - Part A | 67.9 | Hard Dry Thumb Twist | h | 3.50 |
| | - Part B | 49.2 | | | |
| | -Mix | 62.0 | | | |
| Mix Viscosity* @ 25°C | mPa.s | 1000 | Persoz Hardness | 7 days | 240 |
| VOC | g/l | 320 | Direct impact | cm.kg | 80 |
| PVC | % | 32.5 | Reverse impact | cm.kg | 4 |

^{*}ASTM D 1544-80



ANCAMIDE 702B75P2 ANTI-CORROSIVE PRIMER BASED ON SEMI-SOLID EPOXY RESIN EEW 375. CURING AGENT LOADING 90% OF THEORETICAL STOICHIOMETRY

| Nb. | A-Component (g) | | | Anti-Corrosive Primer |
|-------------|-----------------|-------------------------|------------------|-----------------------|
| 1. | Epoxy Resin | Solvent BADGE (EEW 670) | 75% wt in xylene | 215.60 |
| 2. | Epoxy Resin | Liquid BADGE (EEW 190) | | 92.40 |
| 3. | Settling agent | Antiterra U | | 6.00 |
| 4. | Solvent | Xylene | | 100.00 |
| | | n butanol | | 33.00 |
| | | MIBK | | 25.00 |
| 5. | Filler | Blanc fix micro | | 112.00 |
| 6. | Filler | Microtalc mica W1 | | 81.00 |
| 7. | Filler | Heucophos ZP10 | Heubach | 100.00 |
| 8. | Filler | Bayferrox 130M | Bayer | 125.00 |
| 9. | Filler | Talc 10m0 | | 110.00 |
| | | | | 1,000.00 |

A-Component Manufacture Procedure:

- Charge components 1-4 and stir homogeneous at low shear
- Slowly add components 5-9 and then mix under high shear for 30 mins until Hegman gauge 7 is achieved

| Nb. | B-Component (g) | | | |
|-------|-----------------|-----------------|--------|----------|
| 1. | Curing Agent | Ancamide 702B75 | Evonik | 126.00 |
| 2. | Curing Agent | Ancamine K54 | Evonik | 4.00 |
| 3. | Solvent | n butanol | | 15.00 |
| 4. | Solvent | Xylene | | 55.00 |
| | | | | 200.00 |
| Total | | | | 1,200.00 |

After mixing Part A and B, apply a 30 minute induction time prior to application.



| Mixing ratio | weight | 5.0 :1 | Pot-life | h | 5 |
|--------------------------|----------|--------|----------------------|--------|------|
| | volume | 3.0 :1 | | | |
| Density (g/ml) | - Part A | 1.59 | Gloss (60°) | | 46 |
| | -Mix | 1.42 | | | |
| Solid Content (Weight %) | - Part A | 78.2 | BK Dry time 23°C | | |
| | - Part B | 49.3 | Phase I | h | 1.50 |
| | -Mix | 73.4 | Phase II | h | 2.25 |
| Solid Content (Volume %) | - Part A | 59.4 | Hard Dry Thumb Twist | h | 3.00 |
| | - Part B | 43.0 | | | |
| | -Mix | 55.3 | | | |
| Mix Viscosity* @ 25°C | mPa.s | nd | Persoz Hardness | 7 days | 220 |
| VOC | g/l | 380 | Direct impact | cm.kg | 200 |
| PVC | % | 33.8 | Reverse impact | cm.kg | 12 |

Examples of solvent based, solid BADGE: Dow DER 671-X75 or Epon 1001-X75 types Examples of liquid based BADGE: Nanya NPEL 128, Dow DER 331 or Epon 828 types

*ASTM D 1544-80



ANCAMIDE 702B75P3 ANTI-CORROSIVE PRIMER BASED ON SOLID EPOXY RESIN EEW 525. CURING AGENT LOADING 90% OF THEORETICAL STOICHIOMETRY

| Nb. | A-Component (g) | | | Anti-Corrosive Primer |
|-----|-----------------|-------------------------|------------------|-----------------------|
| 1. | Epoxy Resin | Solvent BADGE (EEW 670) | 75% wt in xylene | 212.20 |
| 2. | Epoxy Resin | Liquid BADGE (EEW 190) | | 23.10 |
| 3. | Epodil® diluent | Epodil® LV5 diluent | | 28.90 |
| 4. | Thixotrope | Bentone SD-2 | | 8.70 |
| 5. | Dispersant | Disperbyk 163 | | 3.90 |
| 6. | Solvent | Xylene | | 183.20 |
| | | Dowanol PM | | 19.30 |
| | | MIBK | | 24.10 |
| 7. | Filler | Barite | | 163.90 |
| 8. | Filler | Quartz 400 mesh | | 173.60 |
| 9. | Filler | Heucophos ZPA | Heubach | 33.80 |
| 10. | Filler | Bayferrox 130M | Bayer | 48.20 |
| 11. | Filler | Talc 400 mesh | | 77.10 |
| • | | · | | 1,000.00 |

A-Component Manufacture Procedure:

- Charge components 1-4 and stir homogeneous at low shear
- Slowly add components 5-9 and then mix under high shear for 30 mins until Hegman gauge 7 is achieved

| Nb. | B-Component (g) | | | |
|-------|-----------------|-----------------|--------|----------|
| 1. | Curing Agent | Ancamide 702B75 | Evonik | 70.50 |
| 2. | Curing Agent | Ancamine K54 | Evonik | 2.00 |
| 3. | Solvent | n butanol | | 18.30 |
| 4. | Solvent | Xylene | | 59.30 |
| • | | | | 150.10 |
| Totsl | | | | 1,150.00 |

After mixing Part A and B, apply a 30 minute induction time prior to application.



| Mixing ratio | weight | 5.0 :1 | Pot-life | h | 5 |
|--------------------------|----------|--------|------------------|--------|-------|
| | volume | 3.0 :1 | | | |
| Density (g/ml) | - Part A | 1.48 | Gloss (60°) | | 58 |
| | - Part B | 0.90 | | | |
| | -Mix | 1.37 | | | |
| Solid Content (Weight %) | - Part A | 72.0 | BK Dry time 23°C | | |
| | - Part B | 36.6 | Phase I | h | 1.00 |
| | -Mix | 67.4 | Phase II | h | 4.50 |
| Solid Content (Volume %) | - Part A | 52.1 | Cross Hatch Ad. | 5 (no | loss) |
| | - Part B | 32.8 | | | |
| | -Mix | 48.2 | | | |
| | | | Persoz Hardness | 7 days | nd |
| VOC | g/l | 445 | Direct impact | cm.kg | 200 |
| PVC | % | 37.5 | | | |



ANCAMIDE 702B75W1 WHITE TOP COAT BASED ON SOLID EPOXY RESIN EEW 525. CURING AGENT LOADING 95% OF THEORETICAL STOICHIOMETRY

| Nb. | A-Component (g) | | | Anti-Corrosive Primer |
|-----|-----------------|-------------------------|------------------|-----------------------|
| 1. | Epoxy Resin | Solvent BADGE (EEW 670) | 75% wt in xylene | 301.30 |
| 2. | Epoxy Resin | Liquid BADGE (EEW 190) | | 34.40 |
| 3. | Additive | Cymel 303 | | 8.60 |
| 4. | Rheology aid | MPA 2000X | | 6.90 |
| 5. | Thixotrope | Bentone SD-2 | | 8.60 |
| 6. | Flow agent | Modaflow | | 1.30 |
| 7. | Additive | Antiterra U-80 | | 3.40 |
| 8. | Pigment | Titanium Dioxide | | 258.80 |
| 9. | Filler | Barite | | 155.00 |
| 10. | Filler | Quartz 400 mesh | | 133.00 |
| 11. | Solvent | Xylene | | 94.70 |
| 12. | Solvent | n butanol | | 24.20 |
| | | 1 | ' | 1,000.00 |

A-Component Manufacture Procedure:

- Charge components 1-7 and stir homogeneous at low shear
- Charge appropriates amounts of 11 and 12 to aid dispersion
- Slowly add components 8-10 and then mix under high shear for 30 mins until Hegman gauge 7 is achieved
- Add remaining 11 and 12 after grind

| Nb. | B-Component (g) | | | |
|-------|-----------------|-----------------|--------|----------|
| 1. | Curing Agent | Ancamide 702B75 | Evonik | 103.40 |
| 2. | Curing Agent | Ancamine K54 | Evonik | 4.00 |
| 3. | Solvent | n butanol | | 10.00 |
| 4. | Solvent | Xylene | | 68.50 |
| | | | | 185.90 |
| Total | | | | 1,185.90 |

After mixing Part A and B, apply a 15-30 minute induction time prior to application.



| Mixing ratio | weight | 5.4 :1 | Pot-life | h | 5 |
|--------------------------|----------|--------|------------------|--------|-------|
| | volume | 3.0 :1 | | | |
| Density (g/ml) | - Part A | 1.63 | Gloss (60°) | | 82 |
| | - Part B | 0.93 | | | |
| | -Mix | 1.46 | | | |
| Solid Content (Weight %) | - Part A | 80.6 | BK Dry time 23°C | | |
| | - Part B | 43.9 | Phase I | h | 1.00 |
| | -Mix | 74.8 | Phase II | h | 4.75 |
| Solid Content (Volume %) | - Part A | 63.3 | Cross Hatch Ad. | 5 (nc | loss) |
| | - Part B | 38.0 | | | |
| | -Mix | 57.1 | | | |
| Mix Viscosity* @ 25°C | mPa.s | nd | Persoz Hardness | 7 days | nd |
| VOC | g/l | 367 | Direct impact | cm.kg | 180 |
| PVC | % | 29.0 | | | |

^{*}ASTM D 1544-80

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