



CHWEN SHYANG ENTERPRISE CO., LTD.

純祥實業股份有限公司
NO.13, RONG-GONG N. RD., GUANN-IN INDUSTRIES
PARK, TAUR-YUAN, TAIWAN 325
TEL : 886 3 4389676 FAX : 886 3 4389686
WEBSITE : <http://www.shm.com.tw>
EMAIL : bonach.a001@bonaflight.com.tw

CH-3168 WATER BASE PU ADHESIVE (TDS)

CHARACTERISTICS

1. **PU ADHESIVE** For use in shoes bonding: Rubber, EVA, leather, synthetic leather etc.
2. Long tack time, high bonding strength.
3. Long pot life, easy to use.
4. Good water, heat and yellowing resistance.

PHYSICAL PROPERTIES

Appearance: Milky white liquid
Solid Content: 50 ±1 %
Viscosity: 50 – 800 cps (LVT/25)
Shelf Life: 6 months

PROCESS Mixing Ratio

CH-3168 PU adhesive : 100%

CH-55 Thickener : 0.3 0.6%

According to client's requirements

CH-3168 PU adhesive must mix with **CH-55** thickener to adjust brush's viscosity as required to be workable PU adhesive.

CH-1001 : Hardener: 4 ~ 6%

According to humidity, (hot day 4% hardener) (normal day 5% hardener) (raining day (6% hardener)

(1). Rubber degreasing Rubber Primer (45-50 x2' 30"-3') **CH-3168** PU adhesive + 4~6%

CH-1001 Hardener (55-60 x5' 30"-6')

(2). EVA degreasing UV Primer (45-50 x2' 30"-3') UV light **CH-3168** PU adhesive + 4~6% **CH-1001** Hardener (55-60 x5' 30"-6')

(3). Upper leather buffing leather Primer+4~6% **CH-1001** (45-50 x2' 30"-3') **CH-3168** PU adhesive + 4~6% **CH-1001** Hardener (55-60 x5' 30"-6') Assembling Pressing

Drying : Primer (45-50 x2' 30"-3')

Cement (55-60 x5' 30"-6')

CH-1001 : Hardener (Water-Emulsifiable Polyisocyanate)

NOTICE :

1. **CH-3168** can be stored at 5-40 for 6 months in original seal containers.
2. Temperature above 40 must be avoided.
3. **CH-3168** had better finished during 2 months in best period.
4. The product is sensitive to frost, and must therefore not stored at temperature below 5 . It ' s not possible to thaw the product after freezing.
5. The containers must be kept tightly sealed; otherwise vaporization of water leads the formation of a film which is not re-dispersible.

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EMAIL : sonach.8001@bonaight.com.tw

CH-55 Thickener (TDS)

CH-55 Thickener Rheological additives :

Polyurethane-based associative thickeners for PU resin. **CH-55 Thickener** is good thickener with water based PU resin. **CH-55** is an additive with a high thickening effect in the medium-shear range (Stormier viscosity, Krebs Units).

Applications :

0.3~0.6% with water based PU resin

Key Properties :

CH-55 Thickener Rheological additive

excellent rheology improves medium-shear range viscosity enhances film build highly efficient excellent improves flow and leveling .reduces spattering during roller application enzyme resistant develops pH-independent rheology easily incorporated compatibility

Chemical and Physical Data

Composition: polyurethane solution in a mixture of water/diethylene glycol ether

Color : cloudy white

Form supplied : 25% solution ± 0.5 %

Viscosity max. : 6000 mPa.s

Density : 1.03 g/cm³

Levels of Use

The typical quantity of **CH-55 Thickener** is 0.3 to 6.0% by weight of the resin. To achieve optimum properties, the system's surfactant blend may need modification.

Health and Safety

Before using this product please consult our Material Safety Data Sheet for information on safe handling.

The information in this publication is intended to serve as a guide but is not necessarily complete and is given without warranty. We recommend all users to determine the suitability of our products for their intended uses and caution them to comply with statutory obligations and to avoid infringing rights of third parties. We encourage users to contact us to discuss problems involving our products in order to facilitate their use.

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CH-1001- Hardener (TDS)

Use and characteristics :

CH-1001- Hardener is a non-yellowing aliphatic and butyltin-free polyisocyanate that can act as crosslinking agent for aqueous polymer dispersions. The improvement of dispersions film properties such as heat, water, and solvents resistance can be achieved by its cross linking.

Physical properties :

- 1 Appearance : colorless transparent liquid
- 2 Solid content : 100 %
- 3 Viscosity : 1500-3800 cps
- 4 NCO % : 18.5 ±1%
- 5 Shelf life : 6 month (keep sealed)/5-40

Using method :

1. Add 5 % **CH-1001 Hardener** by weight to the thickened dispersion and mix well by agitator at 500-800 rpm for 10-15 min. Use up in 3 hours.
2. Add 1% more **CH-1001 Hardener** during raining days and high humidity weather.
3. Don't seal the container due to CO₂ will evolve when hardener mixing with cement.

Notice :

1. Easy to react with moisture and generate CO₂, thus seal the container when not in use.
2. Should be kept in tightly closed containers at 5-40

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Material Safety Data Sheet

一、 Identification of the substance/preparation and company

Page 1

Product Information: WATER BASE PU ADHESIVE			
Production Number: CH-3168			
Information on Producer/Supplier Name, address, Phone: CHWEN SHYAN ENTERPRISE CO., LTD. NO. 13. RONG-GONG N. ROAD, GUANN-IN INDUSTRIES PARK. TAUR-YUAN, TAIWAN 328 TEL NO: 88634389676			
Emergency Phone No:	88634389676	Fax No:	88634389686
Compile Date:	March/08/2007		
Document No;	Version: 06	Document type:	Uncontrolled Document

二、 Composition / Information on Ingredients

English Name:	
Synonyms:	-
Chemical Abstracts Number (CAS No.):	-
Percentage for chemical Ingredient (%):	-

Mixing:

Chemical Character:		
Hazardous Components Name	Concentration / Percentage	Hazard Symbols
Acetone	< 1	
Water	50 ± 1	
PU Resin	50 ± 1	

三、 Hazard Identification:

Hazard Warning for Health: May cause sensitization by skin contact and inhalation.
Hazard Warning for Environment Air pollution and water pollution.
Physical and Chemical Dangerous: Low VOCs and low toxicity.
Special Harm : None
Hazard Category : None

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Page 2

Emergency and first aid procedures.
Inhalation: Take patient into the fresh air.
Skin contact: Wash thoroughly with plenty of soapy water.
Eye contact: Rinse with plenty of water, then consult oculist.
Avoid vomiting and seek medical advice.
Major Disease and Harm Effect: None
First-Aid personal: Water respirator, rubber gloves, goggles and protective clothing.
Prompt to doctor: Kind of resin.

五、 Fire fighting measure:

Suitable extinguishing media: Water, foam and power extinguisher.
Special Exposure hazards: Vapors are heavier than air and may travel back to source of ignition a flash back. Irritating and toxic gases of fumes may be released during a fire.
Special protection procedure: Cool the containers down with plenty of water.
Special protection equipment : Wear respiratory protection equipment.

六、 Accidental Release Measures

Personal protection : Wear respirator, rubber gloves, goggles and protective clothing.
Environmental protection: Prevent entry into the sewage system, risk of blockage due to polymer deposits.
Methods for cleaning up: Cover residues with humid absorbent material, and then fill into container by shovel.

七、 Handling and storage

Handling: Ensure efficient exhaust ventilation in the working area.
Storage: Keep container tightly closed and store between 5°C and 40°C.

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八、 Exposure control / personal protection

Page 3

Engineering control: TWA/STEL/CEILING: 750ppm (Acetone) Biotic Index : LD 50 > 9750 mg/kg (Acetone)
Personal protection equipment: Respiratory protection. Wear air-supplied respirator. Hand protection Wear gloves. Eye protection. Wear goggles. Skin & body protection. Wear protective clothing.
Hygiene procedures: Observe the common precautionary measures, contaminated cloth must be changed immediately, wash hands after work is completed.

九、 Physical and chemical properties / characteristics

Appearance : Liquid	Form:
Color : Milky-white	Order: slight ketone odor
pH value: 7.8 ± 1	Boiling Point/Boiling Rang:
Decomposition Temperature: -	Flash point: -- °C Test Method: --
Spontaneous Temperature: --	Exposure limits: --%
Vapor Pressure : ---- mm Hg(20°C)	Vapor density (Air=1.0)
Specific gravity : 1:00-1.10 (Water=1)	Solubility in water Miscible

十、 Stability and reactivity

Stability : Good
Special conditions of hazardous reaction : Decomposed at high temperature.
Conditions to avoid: Keep away from flame.



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Page 4

Incompatibility: Strong alkalis and strong acids

Hazardous decomposition products : None

十一、 Toxicological information

Acute Toxicity : None

Local effect : None

Sensitive: Longer contact with skin, irritating effects are possible.

Chronic : None

Exceptional Effect : None

十二、 Ecological information

Possibility of Environmental impact/Move:

Hazardous to water. Must not enter the water, drains or ground.

十三、 Ecological information

Disposal information:

Should be disposed of at appropriate incineration unit observing official local regulations.

十四、 Transport information

International transport regulation:

DOT,IATA/ICAO,IMDG/IMO

The United Nations Number (Un-No) : **

Internal Transport regulation:

1. Road safety rules dealing with Article 84

2. Ships carrying dangerous goods rules

3. Taiwan Railway Administration transporting dangerous goods handling rules

Special transport way and note:

Keep away from foodstuffs, acids and alkalis, put between 5°C and 40°C.

十五、 Regulation Information

Apply Regulation:

Labor safe sanitation rules, organic solvent poisoning prevention rules, workers operating in the ambient air standards permissible concentration of harmful substances, hazardous and harmful substances of general rules

十六、 Other Information

Reference: ---

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Material Name: **CH-3168** Water base PU adhesive

Viscosity: 50 – 800 cps (LVT/25)

Appearance: Milky white liquid

Diluents: water

Solid content (%) : 50 ± 1

pH : 7.8 ± 1

Density: 1.06 g/cm³

Hardening or drying time : 55-60 5.5 ~ 6 minutes

Characteristics: For use in shoes bonding: Rubber, EVA, leather, synthetic leather, etc. Long tack time, high bonding strength, Long pot life, easy to use, Good water, heat and yellowing resistance.

Packing: 120 Kgs * 118 drums= **14160 Kgs =20 ft container**

Purposes: Shoes Adhesive



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