SEMI WORK RESIN

General Description:

SEMI WORK RESIN is an acrylic polymer designed for use in interior and exterior gloss paints. In addition, excellent quality semi – gloss, eggshell and flat paints can be formulated using SEMI WORK RESIN. The inherent gloss capabilities of the polymer make it an ideal candidate for waterborne lacquer applications. The polymer outstanding alkali resistance its use in systems for masonry.

Properly formulated paints based on SEMI WORK RESIN show an outstanding balance of properties, including.

- ☞ Excellent block resistance.
- ☞ High gloss development
- ☞ Outstanding wet adhesion.
- ☞ High alkali resistance
- ☞ Outstanding rheology.
- ☞ Excellent flow and levelling
- ☞ Quick dry time.

Physical Properties:

Total solids (% by wt.)	44 – 46
Viscosity, cps at 26^0C (Brookfield LVT # 1/60 rpm)	10 – 50
PH Value	8.2. – 9.5
Specific Gravity	Approx.1.08 +/- 0.02
Particle size, microns	Approx. 0.2
Minimum Film Forming Temp., ^{0}C	Approx. 28
Glass Transition Temp., ^{0}C	Approx. 54
Film Clarity	Clear
Storage Life	Maximum 6months in sealed container protected from direct sunlight or heat.

Storage and Handling:

Follow the storage and handling procedures typically recommended as for polymers dispersion. Use corrosion resistant storage tanks and piping. Stainless, fiberglass-reinforced plastic, polyethylene and baked phenolic lined steel are suitable. Air operated diaphragm pumps are preferred. Avoid extremes of temperautres. Do not freeze. Store above 4 degress C.

Product Safety:

When considering the use of this product in a particular application, you should review our latest Material Safety Data sheet(s) and ensure that the use you intend can be accomplished safely. Before handling any other products mentioned in the text, you should obtain available products safety information and take the necessary steps to ensure safety use.

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION

PRODUCT NAME : **SEMI WORK RESIN**
CHEMICAL FAMILY : Modified Acrylic Copolymer
HAZARD CLASSIFICATION : None
SHIPPING NAME : None
CAS # CAS NAME : Not Available (mixture)

II. PHYSICAL DATA

BOILING POINT : 100^0c (760 mm Hg.)
FREEZING POINT : O^0C
SPECIFIC GRAVITY : 1.08 Approx.
VAPOUR PRESSURE : 17.5 mm Hg at 20^0C
VAPOUR DENSITY : 1.0
SOLUBILITY IN WATER : 100% by wt.
PERCENT VOLATILES BY VOL : 55% Wt.
EVAPORATION RATE : 1
(Butyl Acetate = 1)
APPEARANCE : White, Milky Fluid
AND ODOUR : Mild Odour

III.INGREDIENTS

MATERIALS	%by wt.	TLV	HAZARD
Polymer + Additives	55	N.A	Not currently known
Piror P840	0.1	-	Irritant

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : Not applicable (Aqueous System)
FLAMMABLE LIMITS : Not Available (Aqueous System)
EXTINGUISHING MEDIA : The latex will not burn until water has evaporated. For residual solids: use water spray, carbon dioxide, dry chemical, alcohol-type or universal-type foams applied by manufacturer's recommended techniques.
SPECIAL FIRE FIGHTING PROCEDURES : None
EXPLOSION HAZARDS : None

V. HEALTH HAZARD DATA

ACTUE EFFECTS OF OVER EXPOSURE :

SWALLOWING : None currently known. May cause some nausea
SKIN ABSORPTION : None currently known
INHALATION : None currently known
SKIN CONTACT : May cause transient reddening of skin.
EYE CONTACT : None currently known
CHRONIC EFFECTS OF OVER EXPOSURE : None currently known
OTHER HEALTH HAZARDS : None currently known.

EMERGENCY AND FIRST AID PROCEDURES :

SWALLOWING : No harmful effects expected.
SKIN : Wash with soap and water.
INHALATION : No emergency care anticipated.
EYES : Flush with water for at least 15 minutes.
NOTES TO PHYSICIAN : Toxicology studies of similar material have shown that the material is of no specific antidote. Treatment of over exposure should be directed at the control of symptoms and the clinical conditions.

VI. REACTIVITY DATA

STABILITY	: Stable
CONDITION	: None
INCOMPATIBILITY (Materials to avoid)	: None
HAZARDIYS COMBUSTION OF DECOMPOSITION PRODUCTS	: When water evaporates, polymer can burn and produce carbon dioxide and carbon monoxide.
HAZARDOUS CONDITION TO AVOID	: Will nor occur. : None.

VII. SPILL OR LEAK PROCEDURES

STEPE TO BE TAKEN IF MATERIAL IF SPILLED OR RELASED	: Major spills should be collected for disposal. Minor spills may be flushed to sewer if local regulations permit.
WASTE DISPOSAL METHOD	: Bury in suitable landfall where permitted under appropriate government regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specific type)	: Not Required
VENTILATION	: General (mechanical) room ventilation is expected to be satisfactory.
PROTECTIVE GLVOES	: Recommended.
EYE PROTECTION	: Safety Glasses
EQUIPMENT	: Eye bath.

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING.

- Avoid breathing vapours.
- Keep containers closed.
- Use with adequate ventilation system.
- Store under cover from direct sunlight and frost.
- Avoid extremes of temperature.

FOR INDUSTRIAL USE ONLY.

OTHER PRECAUTIONS	: Do not leave containers open. Avoid prolonged or repeated contact with skin.

In case of emergency, contact the nearest sales / technical office in the country.

NOTE: PLEASE READ AND UNDERSTAND CURRENT MATERIAL SAFETY DATA SHEET.