TRI-CHEM

377 SL PART A: Base

FOR USE WITH PART B COMPONENT OF 377 SL ONLY

377 Liquids are a 95% solids, 2 component aromatic urethane binder for use with 377 SL Part C to create one of the 3 different versions of the cementitious urethane 377 System. The 377 System is available in three versions (SL Slurry, TR Trowel and D Dressing). All versions use the same unit of 377 Liquids to make 1 mix, but each version has a different dry Part C component that creates the system variation. 377 Systems meet USDA/FDA guidelines for use in Federally inspected facilities. This unit of Part A Base is one portion of a two component urethane binder material.

PACKAGING: One Unit of 377 Liquids consists of one, 1 gallon container of Part A (base) and one, 1 gallon container of Part B (hardener). The Part A and Part B are to be combined to make approximately 2 gallons of mixed urethane binder liquids which are to be combined with the separate 377 SL Part C aggregate component to create one mix.

COVERAGE: 377 Liquids are not recommended as a neat coating without adding 377 SL Part C. When one unit of 377 Liquids are combined with the different 377 SL Part C units the following average coverage will result: 1 Unit 377 SL will cover approximately 60 square feet at 1/8".

SURFACE PREPARATION: The substrate must be clean, dry and sound with new concrete cured for at least 7 days at 70°F. Remove dust, laitance, grease, curing compounds, waxes, foreign particles, animal fats, oils, disintegrated or soft base materials, and any previously applied potentially incompatible coatings. Create a surface profile on concrete by shot-blasting to a minimum CSP-3 profile. 377 Systems are only to be applied directly to a prepared, bare concrete substrate.

MIXING: Do not split kits 377 Liquids! All 3 versions of 377 are mixed the same way. Pour Part A into a mixing vessel. Add up to one 1.5 Jar Unit TRI-CHEM Universal Colorant and power mix on low speed (300 RPM) with an oval shaped, wisk style mixing blade until homogenous. Add Part B into the Part A and mix for 1-2 minutes until homogenous. Slowly incorporate Part C into the blended Parts A and B by pouring only portions of the Part C into the liquids over another 1-2 minute period. Continue to mix until all aggregate is wet out and the mix is free of clumps.

APPLICATION: Application steps for the 3 versions of 377 are each different. Please refer to TRI-CHEM's individual Technical Data Sheets on 377 for specific instructions for installing each system.

POT LIFE: At 75°F and 50% R.H., 377 Liquids mixed with 377 SL Part C has a useful working time of approximately 15 minutes. Using any products beyond this time will result in variable results and therefore any mixed products beyond the pot life should be discarded. Apply all mixed material as quickly as possible.

TECHNICAL DATA AND SAFETY DATA SHEET AVAILABILITY: A Technical Data Sheet and Safety Data Sheet are available from TRI-CHEM for this product. Applicators should read and understand both documents prior to mixing and applying this product.

KEEP OUT OF THE REACH OF CHILDREN

Part A		CAS Number
Vegetable Oil	5.00mg/m3	Trade Secret
Butyl Benzyl Phthalate	Not Established	85-68-7
Glycerin	5.00 mg/m3	56-81-5

HMIS: Health – 2, Flammability – 1, Reactivity – 1 (0 – Minimal, 4 – Severe Hazard)
DOT Technical Name: Polyurethane Dispersion of Castor oil- Not DOT Regulated
***When in individual containers of less than the Product RQ, this material ships as non-regulated. (RQ: 500lbs)**
Acute Oral Toxicity, Category 4 Skin Irritation, Category 2 Respiratory Sensitization, Category 1B
Acute Skin Toxicity, Category 4 Acute Inhalation Toxicity, Category 4

SIGNAL WORD: Warning Hazard-determining components of labeling: Butyl Benzyl Phthalate
Hazard Statements: H317 May cause an allergic skin reaction • H302 Harmful if swallowed • H312 Harmful in contact with skin • H332 Harmful if inhaled • H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary Statements: P273 Avoid Release to the Environment • P280 Wear protective gloves/ protective clothing/eye protection/face protection. • P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue Rinsing. P310 Immediately Call a POISON CENTER or doctor/physician.
GENERAL ADVICE: Consult a physician. Show this safety data sheet to physician in attendance.
EYES: In case of contact, flush eyes with plenty of clean, lukewarm water. Use fingers to hold eyelids open. Get medical attention if irritation develops or persists.
SKIN: In case of skin contact, wash affected areas with soap and lukewarm water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash clothing and shoes before reuse.
INGESTION: If swallowed, DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Drink one to two cups of water or milk to drink. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention immediately. Should vomiting occur, keep head lower than hip level to prevent aspiration of fluid into the lungs.
INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration. Get medical attention.
HANDLING: Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Avoid breathing dust, vapor, or mist. Avoid contact with eyes. Avoid contact with skin or clothing. PMA may form peroxides during prolonged storage. Avoid contact with light and check peroxide content before use. Educate and train employees in the safe handling of this product.
STORAGE: Store between 32°F and 120°F. Keep from freezing. Keep container closed when not in use. Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatibilities. Store in original or similar containers. Store separate from food products.
DISPOSAL METHOD: Comply with all Federal, State and Local regulations. Incineration is the preferred method. All containers should be disposed of in accordance with governmental regulations in an environmentally safe manner. Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

TRI-CHEM

377 SL PART B: Hardener

FOR USE WITH PART A COMPONENT OF 377 SL ONLY

377 Liquids are a 95% solids, 2 component aromatic urethane binder for use with 377 SL Part C to create one of the 3 different versions of the cementitious urethane 377 System. The 377 System is available in three versions (SL Slurry, TR Trowel and D Dressing). All versions use the same unit of 377 Liquids to make 1 mix, but each version has a different dry Part C component that creates the system variation. 377 Systems meet USDA/FDA guidelines for use in Federally inspected facilities. This unit of Part A Base is one portion of a two component urethane binder material.

PACKAGING: One Unit of 377 Liquids consists of one, 1 gallon container of Part A (base) and one, 1 gallon container of Part B (hardener). The Part A and Part B are to be combined to make approximately 2 gallons of mixed urethane binder liquids which are to be combined with the separate 377 SL Part C aggregate component to create one mix.

COVERAGE: 377 Liquids are not recommended as a neat coating without adding 377 SL Part C. When one unit of 377 Liquids are combined with the different 377 SL Part C units the following average coverage will result: 1 Unit 377 SL will cover approximately 60 square feet at 1/8".

SURFACE PREPARATION: The substrate must be clean, dry and sound with new concrete cured for at least 7 days at 70°F. Remove dust, laitance, grease, curing compounds, waxes, foreign particles, animal fats, oils, disintegrated or soft base materials, and any previously applied potentially incompatible coatings. Create a surface profile on concrete by shot-blasting to a minimum CSP-3 profile. 377 Systems are only to be applied directly to a prepared, bare concrete substrate.

MIXING: Do not split kits 377 Liquids! All 3 versions of 377 are mixed the same way. Pour Part A into a mixing vessel. Add up to one 1.5 Jar Unit TRI-CHEM Universal Colorant and power mix on low speed (300 RPM) with an oval shaped, wisk style mixing blade until homogenous. Add Part B into the Part A and mix for 1-2 minutes until homogenous. Slowly incorporate Part C into the blended Parts A and B by pouring only portions of the Part C into the liquids over another 1-2 minute period. Continue to mix until all aggregate is wet out and the mix is free of clumps.

APPLICATION: Application steps for the 3 versions of 377 are each different. Please refer to TRI-CHEM's individual Technical Data Sheets on 377 for specific instructions for installing each system.

POT LIFE: At 75°F and 50% R.H., 377 Liquids mixed with 377 SL Part C has a useful working time of approximately 15 minutes. Using any products beyond this time will result in variable results and therefore any mixed products beyond the pot life should be discarded. Apply all mixed material as quickly as possible.

TECHNICAL DATA AND SAFETY DATA SHEET AVAILABILITY: A Technical Data Sheet and Safety Data Sheet are available from TRI-CHEM for this product. Applicators should read and understand both documents prior to mixing and applying this product.

Part B		CAS Number
4,4'-Diphenylmethane Diisocyanate (MDI)	0.02ppm Ceiling 0.20mg/m3 Ceiling	101-68-8
Higher Oligomers of MDI	Not Established	9016-87-9
Diphenylmethane Diisocyanate (MDI)	Not Established	26447-40-5

HMIS: Health – 2, Flammability – 1, Reactivity – 0 (0 – Minimal, 4 – Severe Hazard)
DOT Technical Name: Polyisocyanate of MDI- Not DOT Regulated
Additional Transportation Information: When in individual containers of less than the Product RQ, this material ships as non-regulated. RQ: 15625lb
IMDG Technical Name: Other regulated substances, liquid, N.O.S. (contains 4, 4'-Diphenylmethane Diisocyanate (MDI))

KEEP OUT OF THE REACH OF CHILDREN

Hazard Class: 9 **Hazard Subclass:** N.A. **I.D. Number:** UN3082 **Packing Group:** III
Acute Oral Toxicity, Category 2 Skin Corrosion, Category 1C Serious Eye Damage, Category 2A Aspiration Hazard, Category 1

SIGNAL WORD: Danger
Hazard-determining components of labeling:
4,4'-Diphenylmethane Diisocyanate
Hazard Statements H317 May cause an allergic skin reaction H304 May be fatal if swallowed and enters airways H412 Harmful to aquatic life with long lasting effects H335 May cause respiratory irritation H314 Causes severe skin burns and eye damage
Precautionary Statements P273 Avoid Release to the Environment P280 Wear protective gloves/ protective clothing/eye protection/face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue Rinsing. P310 Immediately Call a POISON CENTER or doctor/physician.
GENERAL ADVICE: Consult a physician. Show this safety data sheet to physician in attendance.
EYES: In case of contact, flush eyes with plenty of lukewarm water for at least 15 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention.
SKIN: In case of skin contact, wash affected areas with soap and lukewarm water. Immediately remove contaminated clothing and shoes. Wash contaminated clothing before reuse. For severe exposures, immediately get under safety shower and begin rinsing. Get medical attention if irritation develops. For lesser exposures, seek medical attention if irritation develops or persists after the area is washed.
INHALATION: If inhaled, remove to fresh air, free from further exposure. Get medical attention if irritation develops. Administer oxygen or artificial respiration as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Consult a physician should this occur. Extreme asthmatic reactions can be life **threatening.**
INGESTION: If swallowed, DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Wash mouth out with water. Do not give anything by mouth to an unconscious person. Get medical attention immediately.
NOTE TO PHYSICIANS
EYES: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision.
SKIN: This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. If burned, treat as a thermal burn.
INGESTION: Treat symptomatically. MDI has very low oral toxicity. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound.
INHALATION: This compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any isocyanate.
HANDLING: Do not breathe vapors, mists, or dusts. Warning properties (irritation of the eyes, nose and throat or odor) are not adequate to prevent overexposure from chronic inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases created by overheating or burning this material. Exposure to vapors of heated MDI can be dangerous. Employee education and training in the safe use and handling of this compound are required under the OSHA Hazard Communication Standard.
STORAGE: Storage temperatures have not been established for this product. Similar product should be stored between 64°F and 86°F. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatibilities. Do not store near food stuffs. Storage period is approximately 6 months at 77°F after receipt of material by customer.
DISPOSAL METHOD: Comply with all Federal, State and Local environment control laws. Incineration is the preferred method. If discarded in it purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

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