

TECHNICAL DATA SHEET

URALITE FH-3140

URETHANE CASTING ELASTOMER
65 Shore A

FEATURES

Insensitive to Typical Environmental Moisture
Excellent Hydrolytic Stability
Low Viscosity
Long Pot Life for Vacuuming
Improved Heat and Chemical Resistance
Long Service Life
No TDI, No 4,4'-Methylene-bis (2-Chloroaniline)

DESCRIPTION

URALITE FH-3140 is a low viscosity, two-component urethane casting elastomer designed specifically to make flexible molds for use with thermosetting resins. URALITE FH-3140 mixes, pours and cures at room temperature into a tough, yet flexible mold to facilitate easy removal of intricately designed models or art objects. It does not exhibit typical moisture sensitive characteristics of most urethane elastomers.

USES

Furniture Panels
Art Objects
Urethane Foams and Water Emulsified Polyesters
Polyester and Epoxy Resins
Gaskets, Casters, Pads, and Many Other Industrial Part Applications

PHYSICAL PROPERTIES

Property	Part A	Part B	Blend
BLENDING RATIO BY WEIGHT	100	22	
COLOR	COLORLESS	BROWN	
DENSITY (ASTM D0792) (lb-mass/gal)	8.6		
DENSITY, ASTM D0792, WEIGHT PER U.S. GALLON (lb-mass/gal)		8.51 - 8.91	
FUNCTIONALITY MEASURE, ISOCYANATE (percent)	4.93 - 5.03		
GEL TIME, ASTM GEL FOR URETHANE(TIME IN MIN.) (minute)			27 - 35
HARDNESS, SHORE A			53 - 63
ODOR	SWEET	AMINE	
ODOR INTENSITY	FAINT		
SPECIFIC GRAVITY (D792/D1475)	1.03		
SPECIFIC GRAVITY, D792/D1475, SPECIFIC GRAVITY		1.073	
VISCOSITY (TMTS001) (cP)	6,200 - 7,000		
VISCOSITY, TMTS001, VISCOSITY ((2/20/77F)) (cP)		40 - 60	
VISCOSITY, TMTS001, VISCOSITY (BROOKFIELD RVF 4/20/75 F) (cP)			1,300 - 1,800



CURE CYCLE

Demolding Time, hours at 77F (25C)	12-24
Demolding Time, hours at 175F (79C)	2
Complete Cure, days at 77F (25C)	7

STORAGE

URALITE FH-3140 should be stored in a cool, dry place. Shelf life is a minimum of 1 year in an unopened containers when stored at 65-80F (1 year from date of manufacture). If compound is below 60F, warm to 70-75F before use. Purge opened containers with dry nitrogen or URALITE FH-8440 Inert Blanketing Gas before resealing.

MIXING:

Ratio: Parts by weight: Part A - 100 Part B - 22

Make sure your mixing equipment is clean and dry. For mixing, a JIFFY MIXER and polyethylene tubs or pails are recommended. The polyethylene tubs or pails are recommended for use since they are easily cleaned of residue and may be reused. Weigh both components into same container and stir slowly for 4 minutes, scraping the sides and bottom of the container periodically to include any unmixed material which may adhere to these surfaces. Care must be taken to avoid whipping air into the mixture. Pour the thoroughly mixed URALITE FH-3140 carefully onto the prepared surface and allow to cure. Working pot life of URALITE FH-3140 is approximately 25 minutes.

CURING

Near ultimate physical properties are normally attained after 3 days at room temperature (77F). Curing of URALITE FH-3140 may be accelerated by utilizing a 4-hour room temperature set followed by 4 hours at 180F. Demolding can usually be accomplished within 12-24 hours at room temperature.

HANDLING PRECAUTIONS

CAUTION: FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.
KEEP AWAY FROM FOOD.

URALITE FH-3140, like all industrial chemicals, plastic resins and hardeners, should be handled with care.

URALITE FH-3140A contains free monomeric isocyanate. This chemical may cause skin irritation and sensitization as a result of prolonged contact. It is very irritating if the liquid comes in contact with the eyes. Also, in case of heavy contact with vapors,

it may cause breathlessness and temporary chest discomfort. Again, as with any industrial chemical, ingestion is harmful.

EMERGENCY AND FIRST AID PROCEDURES:

Skin Contact: Wash with mild soap and water.

Eye Contact: Irrigate promptly with clean, cool water and obtain a physician's care.

Inhalation: If overexposure to vapors results in chest discomfort or coughing, remove the affected person to clean, fresh air. If symptoms persist, contact a physician for additional care and treatment.

Ingestion: Call a physician immediately. Induce vomiting only on the advice of a physician.

PROTECTION PROCEDURES

If used in a confined or an enclosed area, use an air supplied mask or respirator with canister for organic vapors and provide mechanical exhaust ventilation. Vapors are generally heavier than air, therefore any ventilation equipment should be designed to pick up between bench level and floor level. Use protective gloves, safety glasses and rubber or plastic aprons. Avoid contact with skin or clothing. Contaminated clothing should be laundered before wearing again. Contaminated shoes should be thoroughly cleaned before wearing again.

EXPORT ADVICE

This product is a Defense Article as defined in the International Traffic in Arms Regulations (Volume 22 Code of Federal Regulations Parts 120-130). As such, any export of this product or items containing this product may be prohibited by or require a license issued by the U.S. Department of State, Directorate of Defense Trade Controls. Contact H.B. Fuller Company by phone at 651-236-5858 or by email at reg.request@hbfuller.com for further information.



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LIMITED WARRANTY AND TERMS

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CONDITIONAL ACCEPTANCE -- Fuller's acceptance of Purchaser's order for this product is expressly conditional on Purchaser's assent to terms and conditions set forth herein.

ADEQUATE TESTS: The information contained in this bulletin we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be made in your laboratory or plant to determine if this product meets all of your requirements.