AL- MUQARRAM INDUSTRY

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Al Muqarram Industry L.L.C.

TECHNICAL DATA SHEET

HI STICK PU FOAM

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PRODUCT DESCRIPTION

HI STICK PU Foam is the premium quality Polyurethane Foam. It has excellent bonding strength that adheres to the wide range of surfaces. Building insulation that can fill and enclose spares between roof tiles, concrete slabs, wall cavities, drilled holes, frame construction, gaps around windows and other substrates. It is a single component material; has moisture resistance and self-expanding properties.

TECHNICAL PROPERTIS

Note:

Properties	Specifications
Basic Component	Polyurethane
Type	Gun type and straw type
Appearance	Foam
Color	Cream White
Tack-Free Time (min)	Max. 15 mins
Cutting Time (min)	60 @ 35°C
Complete Curing Time (Hour)	24@ 35°C (Less than 100x100 mm width x Depth)
Density (kg/m^3)	10 – 20 (kg/m^3)
Yield (L)	35 – 50 L
Thermal Conductivity [mW/(m-K)]	< 34
Adhesive Strength (kPa)	> 80
Water Absorption (up to 24h)	≤ 1.5% (no epidermis)
Fire Class of Cured Foam **(DIN4102/BS EN 13501-1:2007)**	B3
Dimensional Stability (23°C)	0.10-0.50 %
Service temperature range of cured foam °C	-40 to +100°C
Application temperature range °C	+5 to +35°C
Shelf life (month)	18
Coverage	Width 60 mmx Depth 60 mmx Length 5.0 m for 750 ml can

** Curing time may vary depending on climatic condition during application.*
** Information on this data sheet is subject to change without prior notice and should not be used for writing specifications*

TYPICAL USES

- Mounting of window and door frames.
- Sealing of all types of cracks and holes.

KEY FEATURES

- Economically insulates, fills, seals and bonds
- Easy to use
- Bonds and seals most popular construction materials, wood, concrete, plaster, plumbing, etc.
- Excellent for interior and exterior applications

• Insulation of water-pipe network, central heating. • Soundproofing of partition walls, car and boat cabins, etc.	• Durable airtight seal – stops air infiltration, drafts and energy loss. • High insulating value – saves energy and money. • Contains no CFC's, no HCFC's, Ozone friendly • Cured PU Foam is nontoxic

APPLICATION INSTRUCTION	• Shake Can vigorously for 45-60 seconds before and between uses • To avoid wastage or clogged nozzle, utilize the product within 2 hours of opening the Can • Make sure the application surface is free from dirt and grease. Also, Protect adjacent surface with masking tape or plastic film • Remove the sealed cap from the Can and put a clean spray nozzle • Hold the cylinder upside down and dispense slowly. For a small gap, dispense PU Foam and fill the gap about 50%. Allow it to expand • Apply multiple layers if needed. Sprinkle a small amount of water on the first layer and leave it for 10 minutes to be cured. Apply the second layer and repeat the process. • Recommended single layer thickness is 5-8cm • Wait for a minimum of 1 hour before performing the next step • Use a knife to remove/trim excess foam • If the layer thickness is more than 15cm; curing time is 12 hours • PU Foam drops/Stains can be cleaned with paint thinner acetone or toluene • For best result, apply it within defined temperature (From 5°C to 30°C) • CFC and HCFC FREE
PACKAGING	**HI STICK PU Foam** is available 400 ml 500 ml and 750 ml metal cans.
STORAGE AND SHELF LIFE	Store in cool, dry area. Do not expose to open flame. Excessive heat can cause premature aging of components resulting in shorter shelf life. Foam is reusable by following product instructions. Keep in upright position. Shelter from direct sunlight. Do not expose to temperature exceeding 50°C. Do not pierce or burn even after use. **HI STICK PU Foam** has a shelf life of 18 months from date of manufacturing
STORAGE AND SHELF LIFE	Store in a cool, dry location in unopened containers below 25°C. Do not place in direct sunlight or nearby any heat, sparks, and flame source.
HANDLING PRECAUTIONS	Contents are under pressure. Do not puncture or incinerate. Do not place in hot water or near radiators, stoves or other sources of heat. Use only in well-ventilated areas. NIOSH approved positive pressure supplied air respirator is recommended if exposure guidelines may be exceeded. Wear impervious gloves, protective eye wear and suitable work clothes when using and do not draw them off until the while procedure is finished. No smoking during the whole spraying procedure. Read all instructions and safety information (MSDS) prior to use of any product. The product contains no formaldehyde. Cured foam is non-toxic.
NOTE	Physical properties shown are typical and are to serve only as guide for engineering design. Results are obtained from specimens under ideal laboratory conditions and may vary upon use, temperature and ambient conditions. Right to change physical properties as a result of technical progress is reserved. This information supersedes all previously published data. Yields shown are based on theoretical calculations and will vary depending on ambient conditions and particular application. Read all product direction and safety information before use. Consult local building codes for specific requirements regarding the use of cellular plastics or urethane products in construction.

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