

# Electrical-Shock Safety use of Switchboard *Insulating Mats*

Made in India



**PERFORMANCE MEETS  
VOLTAGE-SAFE FEATURES**



As per IEC 61111



As per ASTM D178



As per IS 15652



As per IS 5424

[www.hicInsulation.com](http://www.hicInsulation.com)

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***Installation & Warranty  
Information***

**HIC**  
**UNIVERSAL**  
True Performance Rubbers

**Wish Good  
Safety from  
Electrical-Shocks  
at Workplace**

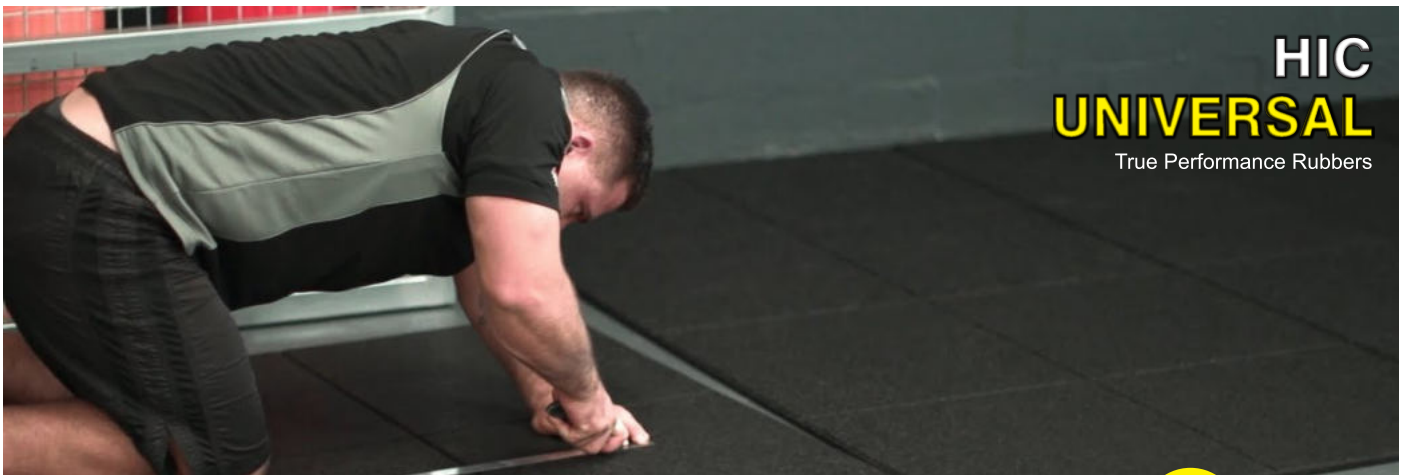


**Manufacturing Range at: [www.UniversalDelhi.org](http://www.UniversalDelhi.org)  
Profile at: [www.hicRubber.com](http://www.hicRubber.com)**



# Thank You for Purchasing HIC “UNIVERSAL” Electrical Insulation Mat

HIC International Co.'s Manufactured Quality natural rubber compounded Electrical Safety Mats superseding IEC 61111, ASTM D-178, IS 15652, IS 5424, BS 921 standards High Voltage Resistant & Anti-Slip Non-Conductive Insulating aspect Advantage assures Long Life Reliability.



## Secured Voltage Safe Rubber Mats Installation Tips

- Anti-slip Safety Floor Covering** with insulation rubber mat around Electrical circuits having voltage rating above 220 V & up to 65,000 Volts (= 65 KV) to ground should be done with great precaution ensuring area is not wet while flooring wearing suitable protective equipment.
- Absolute Sparks Protection** even if small Blisters or pin holes, not the bigger ones, gets visible at times, nothing to interfere safety criteria.
- Safe Shock Protection** in the event of leakage of current for Voltage up to 50 KV is ensured for max up to 1 minute from insulation matting but more safety measures be taken against short circuits please, such as insulation gloves, rubber boots, arc shields etc. be worn to reduce possible electrical hazards near HT & LT voltage panel boards.
- Better Workplace Safety** is achieved by removing Water Accumulation at regular intervals under mats for added safety though excellent water absorbent. However, ensure electrical cables connection and insulation are proper in place while installation.
- Maximum Skid Protection** is ensured by using Textured/ Fine Ribbed/ Aberration Marks/ Chequered Finish of Insulating mats made of solid rubber black or grey or blue color & high grip cloth impressions at bottom part.
- Safe Thickness Minimum of Dielectric Carpet** be used for Surface Proof Test Voltage of standard 1 m W x 2 m L / 1.2 x 5 m dimension as per relevant quality standards:
  - 3 mm thick ( 5 KV proof) Class '0' as per IEC 61111, for 1,000 V max. Working Voltage.
  - 4.5 mm thick ( 10 KV proof) Class '1' as per ASTM D-178, for 7,500 V max. Working Voltage.
  - 2 mm thick ( 10 KV proof) Class 'A' as per IS 15652, for 3,300 V max. Working Voltage.
  - 6.5 mm thick ( 15 KV proof) as per IS 5424, for 3,300 V max. Working Voltage.

For greater electrical shock safety, higher thickness mat up to 20 mm can be used depending upon HT & LT control panel area workers movement frequency to prevent early damage due to wear during installation.

**Size Variation** (+,-0.25 mm Thickness ; +,-1% Width & Length) as per HIC manufacturing tolerance should be acceptable.

### Steps for floor insulation:

1

**Keep Handy HIC Mats**  
Subfloor be cleaned, cemented, zero pitting & moisture-proof.



2

**Adhesive (Fevicol SR 998 or equivalent)**  
Take brush & apply adhesive on both the floor & back of the mats. Allow to dry.



3

**Roller Weights**  
Lay out the mats in a linear direction on the floor.



4

**Brush**  
Pressure down the mat all through with a roller, after laid down properly.



**Disclaimer:** Information's, written and verbal are provided by HIC, relative to its **safety insulation mat** which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of HIC UNIVERSAL brand **electrical insulating mat** should determine for itself the suitability of such rubber products.

Selection **Guide:** [www.hic-india.com](http://www.hic-india.com) | Technical Data **Download:** [www.hicinsulation.com](http://www.hicinsulation.com) | **Reach** HIC: [export@hicrubber.com](mailto:export@hicrubber.com)



## Why HIC Universal Electrical Switchboard Mats?

**Excellent Shock Protection Tested 40 KV Surface Proof**  
Providing Electrical Safety while Cable Joining

**High Working Voltage and Spark Resistant up to 36 KV**  
Lab Passed Rated Class Floor Insulation for Power Substation

**Anti-slip Textured, Fine Ribbed, Chequered Design**  
Prevents Injury to Workmen near HT & LT Control Panel-board



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[www.hic-india.com](http://www.hic-india.com)

### WARRANTY CERTIFICATE

The goods tailor-made, supplied as per buyer's P.O. specifications is warranted against any manufacturing defects for 12 months from the date of Invoice, and assume liability of repairing free of cost in the event of any manufacturing defects.

HIC Int. shall be under no liability in respect of any defect in the goods arising from any drawing, design or specification supplied by the Client. Goods claimed to be in default must be returned to HIC's factory at client cost; cost for return transport prepaid.



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