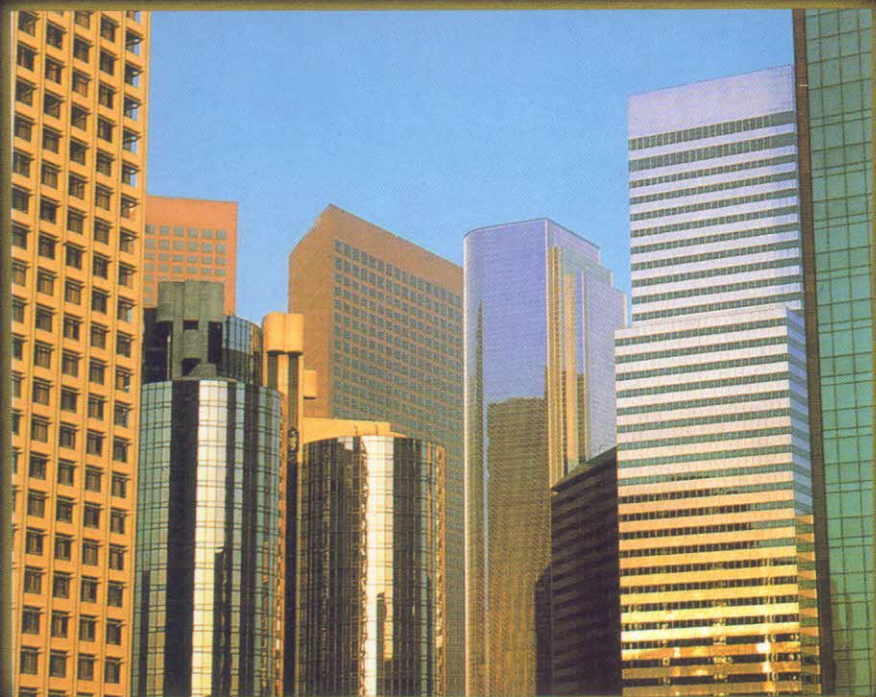


# **DIAMOND**

## **Jumbolon-SprayFoam®**



### **THE INSULATION SOLUTION**

- **Low Thermal Conductivity**
- **Compatibility**
- **Energy Efficient and Cost Effective**
- **Seamless and Monolithic**

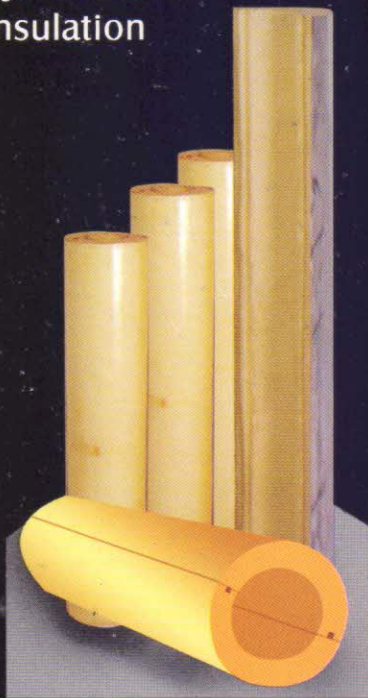
**DIAMOND JUMBOLON®**  
Best Insulation Providers





**DIAMOND Jumbolon-SprayFoam**  
the instant insulation solution for your home

## Diamond Jumbolon PU Pipe Insulation



- Diamond Jumbolon PU Pipe Insulation
- Dia ranging from 3/4" ~ 10" and above
  - Wall thickness ranging from 3/4" to 6" and above
  - Density ranging from 35kg/m<sup>3</sup> ~ 50kg/m<sup>3</sup>

## Diamond Jumbolon Insulation Pannels/ Sheets



- Diamond Jumbolon PU Pannels
- Thickness ranging from 1" ~ 6" and above
  - Density ranging from 25kg/m<sup>3</sup> ~ 60kg/m<sup>3</sup>
  - Size: Normal 1 mtr x 1 mtr  
Optional 1 mtr x 2 mtr  
or any convenient size



## DIAMOND Jumbolon-SprayFoam Demonstrates:

### ■ Low Thermal Conductivity

Diamond Jumbolon-SprayFoam has one of the lowest thermal conductivity ratings of any insulant, which allows efficient retention of heat or cold and consequently lowers the maintenance cost of refrigerated and frozen zones.

Due to lower thickness of PU required in comparison with other materials, savings on the refrigerated space results in economy of running the project.

### ■ Strength

Diamond Jumbolon-SprayFoam provides a high level of compression and shear strength, which is further enhanced by bonding with facing materials such as metal or plasterboard.

### ■ Adhesion

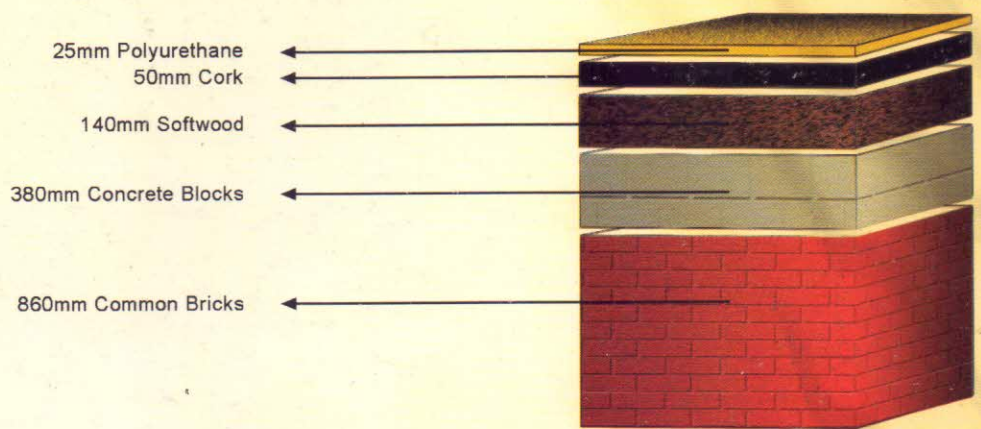
During the short period between mixing and final curing, Diamond Jumbolon-SprayFoam is extremely adheasant, which allows it to bond effectively with a wide range of building facings. The adhesion is so strong that the bond strength is usually higher than the tensile or shear strength of the foam.

### ■ Compatibility

Diamond Jumbolon-SprayFoam is complatible with a large number of building facings, including paper, foil, glass fibre, aluminium, plasterboard and plywood. These can complement the inherent strengths of the foam, enabling its use as semi-structural panels and cladding and allowing Foam to accept cosmetic finishes such as plaster to operate effectively as moisture barriers in conditions of high humidity.



## Comparison of Polyurethane with various materials' thicknesses:



### ■ Thermal Stability

Diamond Jumbolon-SprayFoam can be used in applications which experience exceptional extremes of temperature, from -200°C to +100°C.

### ■ Water Absorption

The water vapor permeability of Diamond Jumbolon-SprayFoam is low and can be enhanced in most building applications by the incorporation of a moisture barrier of polyethylene film or aluminium foil.

### ■ Fire Properties

Like all organic building materials - wood, paper, plastics, paints - Diamond Jumbolon-SprayFoam is combustible, although its ignitability and rate of burning can be modified to suit a variety of building applications and it can be formulated to meet the relevant national regulations.

### ■ Chemical Resistance

Diamond Jumbolon-SprayFoam provides excellent resistance to a wide range of chemicals, solvents and oils.

## Typical Chemical & Physical Properties

Property	Standard	Value
Density	DIN EN ISO 845	Standard 32 kg/m <sup>3</sup>
Compressive Strength	DIN 53421	0.23 N/mm <sup>2</sup>
Thermal Conductivity	DIN 52612	0.0160 W/m.k
Closed Cells	ISO 4590	93%

## Quality Products & Services

Since 1993 Diamond Jumbolon has been providing products that offer protection from the harshness of the elements, thus ensuring desired comfort levels and peace of mind to the consumers. The company applies knowledge in every aspect of the business and provides you with superior customer service and quality controlled products as well as assurance of expert technical support. With Diamond Jumbolon, you're working with one organization for your home or business insulation needs. You can count on responsive communication and continued after sales service from Diamond Jumbolon.

\* Diamond Jumbolon-SprayFoam insulation is a registered trademark of specially graded polyurethane rigid foam insulation solutions.

