

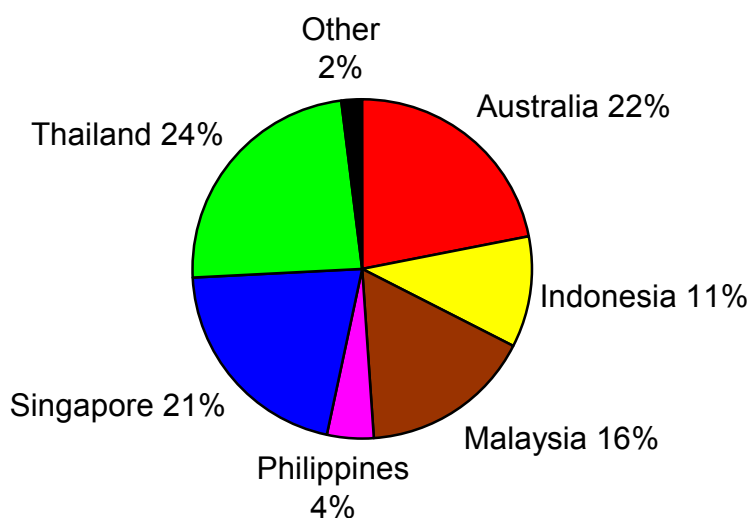
NEW FROM IAL CONSULTANTS

THE MARKET FOR POLYURETHANE CHEMICALS AND PRODUCTS IN SOUTHEAST ASIA AND AUSTRALIA

IAL Consultants is pleased to announce the publication of the second volume, *The Market For Polyurethane Chemicals and Products in Southeast Asia and Australia* as part of a three-volume series covering the Asian polyurethane industry and markets.

Output of polyurethane products in Southeast Asia and Australia totalled 343,090 tonnes in 2003 with Thailand and Australia accounting for almost half, as seen below:

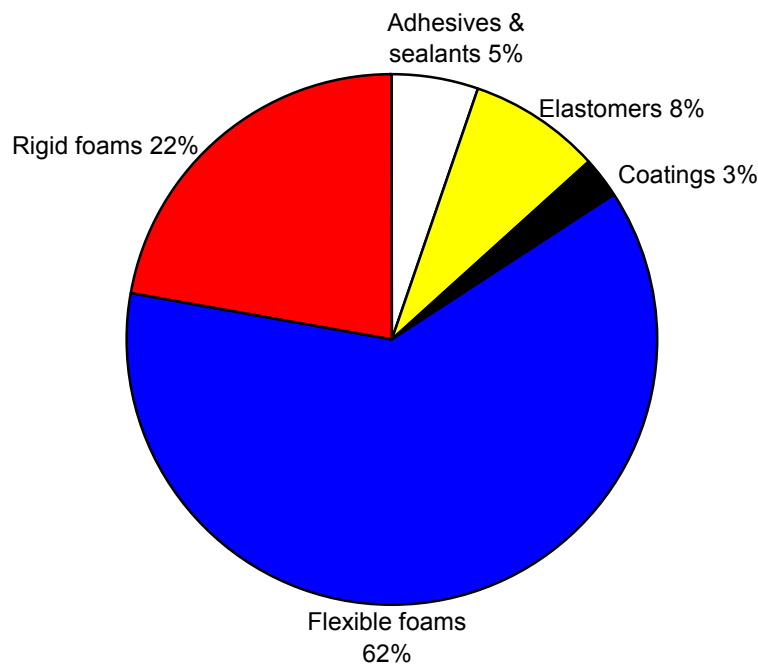
**PU Product Output by Country in SE Asia and Australia,
2003 (%)**



Source: IAL Consultants

Thailand itself is the leading producer of polyurethanes in each PU sector except for coatings, where Australia dominates. Thailand's output of polyurethane products amounted to 82,090 tonnes in 2003, which breaks down as follows:

Thai Output of PU Products, 2003 (%)



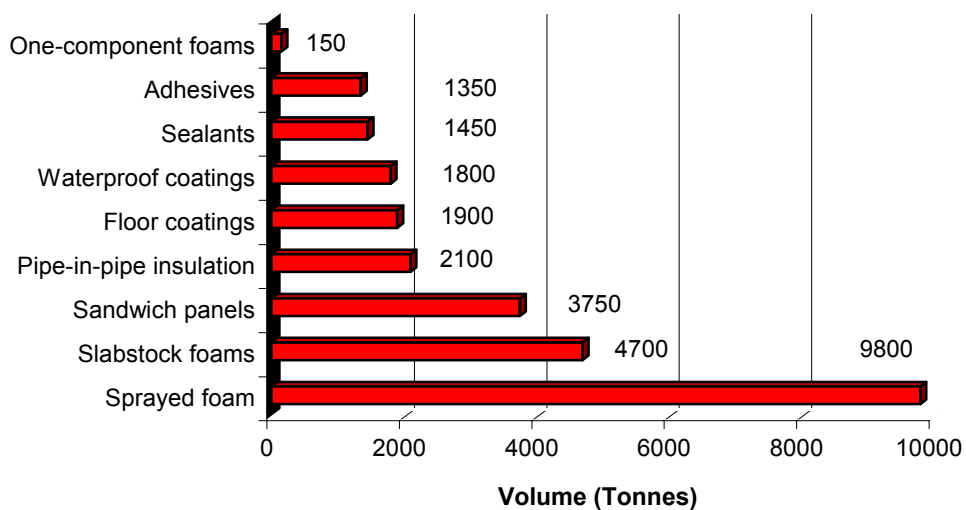
Source: IAL Consultants

The major driving forces for demand in this region are better living standards within the home and rising levels of car ownership. In particular, Thailand is an important manufacturing base for Japanese OEMs, which also boasts excellent growth rates within the paint and coatings sector. Overall growth prospects for the whole region are good, averaging 3.7%, thereby bringing total output of PU products across the whole region from 343,090 tonnes in 2003 to over 410,000 tonnes in 2008. Furthermore, growth may surpass this level as new raw material plants come onstream in China and South Korea. Australia, however, will see growth rates track GDP, which represents a decline after the burst of activity surrounding the Sydney Olympics. One of the main areas of growth is in the use of polyurethane as a high performance building material.

The following chart (*see next page*) shows the level of output of various polyurethane products associated with the construction sector.

- Growth in polyurethane floor coatings is stimulated by increased demand for recreation and leisure facilities in many countries
- Sprayed foam manufacture is largely confined to Singapore and Australia owing to raw material limitations; one-component foams, however, are a relatively new material for the construction industry still served by imports, but likely to grow once their applications have been accepted.
- There is a small but growing use of insulated pipe for district cooling systems in SEA, particularly in major cities of Singapore and Malaysia. This process, the reverse of district heating systems has become recognised as an efficient methods to provide air conditioning to large state owned housing developments as well as public buildings.

Output of PU Building Products in SE Asia and Australia, 2003



Source: IAL Consultants

The Market for Polyurethane Chemicals and Products in Southeast Asia and Australia has the following contents:

1. Introduction
2. Market Summary and Forecast to 2008
3. Raw Material Production
4. Market Review by PU Product
5. Major End-Use Markets for Polyurethane
6. Directory of Raw Material Suppliers
7. Sources of Information

The Market for Polyurethane Products and Chemicals in Southeast Asia and Australia, which contains in its 143 pages some 109 tables, is available from IAL Consultants, price € 3,000. For more information, please contact:

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