

Structural Adhesives – Market and Technology Assessment

Case Study

Client	A global chemical company
Industry	Chemicals
Products	Structural adhesives

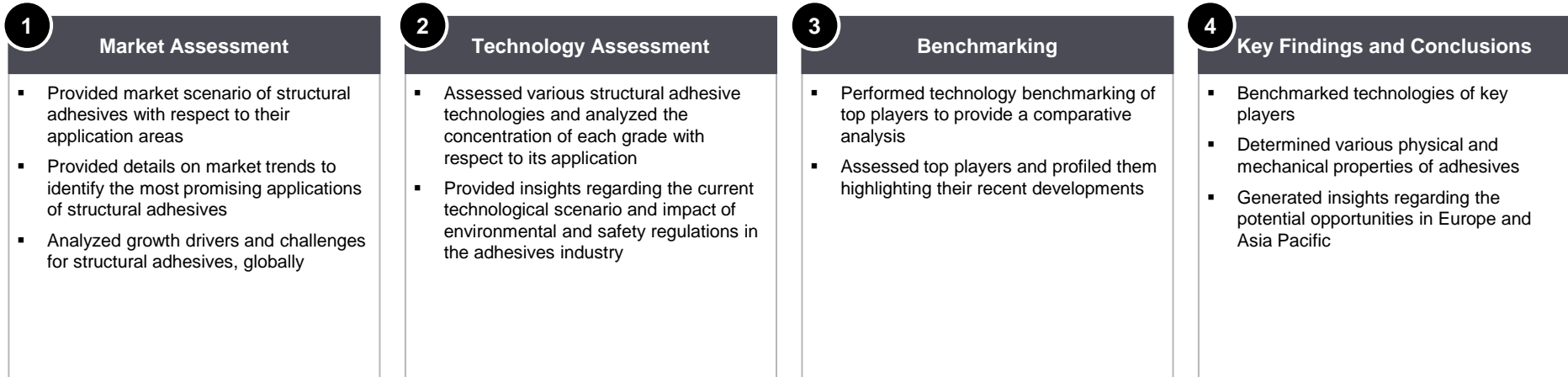
Context

- The market for structural adhesives is experiencing continued growth due to the increased use of composites for various end user applications, and thus, the client wants to study the future of adhesives with respect to technology, formulation, and application.

Key Business Questions

- How is the overall market scenario of structural adhesives with respect to their application areas?
- Which are the dominant technologies and leading players in this market?

Engagement Scope



Research Methodology

Secondary Research

- Conducted desk research to generate insights based on technology evolution in different geographies and to identify key developments undertaken by leading players
- Referred to paid databases such as Factiva and Bloomberg

Primary Research

- Conducted 10+ telephonic interview with industry experts for insight validations

Sample Analysis

1 Market Assessment

As use of multi-materials in auto industry increased, composite-to-metal bonding has become a necessity.

Market overview of global materials demand in automotive industry

Some materials demand in automotive industry

Distribution of global lightweight materials market in the automotive industry

Key insights

2 Technology Assessment and Benchmarking

Technology overview

Structural adhesives technologies

Technology benchmarking - Score card

Technology	Score	Use Rating (0-5)	Adhesive Type	Minimum Cure Time (min)	Low Temp. (°C)	VOC emissions (%)	Part Size (kg)	Heat Cure (min)	Substrate
Powder	4	5	None	None	None	None	None	None	None
Modifiable	3	5	None	None	None	None	None	None	None
Good	3	5	None	None	None	None	None	None	None
High	4	5	None	None	None	None	None	None	None
Very high	5	5	None	None	None	None	None	None	None

3 Players Profiling

Top players based on their benchmarking score

Player	Score	Use Rating	Adhesive Type	Minimum Cure Time	Low Temp.	VOC emissions	Part Size	Heat Cure	Substrate
3M	5	5	None	None	None	None	None	None	None
Huntsman	4	5	None	None	None	None	None	None	None
Henkel	4	5	None	None	None	None	None	None	None
Adhesives	4	5	None	None	None	None	None	None	None
Adipac	4	5	None	None	None	None	None	None	None

Top players w.r.t technology

Top players according to technology

Epoxies, Acrylics, Polyurethanes, Urethanes, Hybrid

3M, Huntsman, Henkel, Adipac, Adhesives, HUNTSMAN, HENKEL, Adipac, Adhesives

4 Key Findings and Conclusions

Environmental and safety regulations impacting the adhesives industry

Key findings and conclusions

USA, Europe, China, Japan

Benefits to Client

- Highlighted the most beneficial adhesive technology, along with its key features
- Assisted the client to identify potential opportunity for structural adhesives in the coming years
- Provided indications on upcoming regulations and their effect on the current composition

Thank you

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