

Global Reworkable Underfill Adhesive Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Reworkable Underfill Adhesive market size is expected to reach \$ 222 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Reworkable underfill adhesive is a reworkable underfill material used for BGA, CSP, WLCSP, flip-chip, and board-level assembly applications. It is typically formulated with low-viscosity epoxy or modified resin systems and fills the gaps between chips and substrates, or between packages and PCBs, through capillary flow, corner bonding, no-flow, or pre-applied processes. After curing, it distributes thermomechanical stress on solder joints and improves drop resistance, thermal cycling performance, and moisture reliability. Compared with conventional underfill materials, its key advantage lies in maintaining insulation performance, low ionic contamination, low void formation, and compatibility with lead-free reflow processes while still allowing device removal and rework through localized heating, thermal softening, or assisted cleaning. This makes it suitable for electronic assembly applications where yield ramp-up, high-value component repair, or avoidance of full-board scrapping is important. The overall gross margin is approximately 46%.

Demand for reworkable underfill adhesives is primarily driven by the miniaturization of board-level packaging and the growing need for repairable high-value electronic assemblies. Smartphones, wearable devices, automotive controllers, industrial control systems, and communication modules extensively use BGA, CSP, WLCSP, and PoP devices. As solder joints become smaller, they are increasingly susceptible to damage from drops, bending, and thermal cycling. Reworkable underfill materials enhance reliability while preserving the ability to perform failure analysis and component replacement, making them particularly attractive for new product introduction, pilot

production ramp-up, and mid-to-high-end electronic modules.

Product development is focused on low-viscosity fast-flowing formulations, rapid low-temperature curing, low ionic contamination, low thermal expansion, and more stable rework windows. Conventional underfills are primarily optimized for one-time reliability, whereas reworkable underfills must balance adhesion strength, thermal cycling durability, and removability. This creates greater challenges in formulation design and process validation. Customers typically evaluate products based on viscosity, glass transition temperature (T_g), coefficient of thermal expansion (CTE), modulus, curing conditions, flux compatibility, and rework residue performance.

This report studies the global Reworkable Underfill Adhesive production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Reworkable Underfill Adhesive and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Reworkable Underfill Adhesive that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Reworkable Underfill Adhesive total production and demand, 2021-2032, (kg)
Global Reworkable Underfill Adhesive total production value, 2021-2032, (USD Million)
Global Reworkable Underfill Adhesive production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)
Global Reworkable Underfill Adhesive consumption by region & country, CAGR, 2021-2032 & (kg)
U.S. VS China: Reworkable Underfill Adhesive domestic production, consumption, key domestic manufacturers and share
Global Reworkable Underfill Adhesive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)
Global Reworkable Underfill Adhesive production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)
Global Reworkable Underfill Adhesive production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Reworkable Underfill Adhesive market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key

companies covered as a part of this study include Henkel, MacDermid Alpha, Namics, ThreeBond, Panacol, YINCAE, Epoxysset, AI Technology, Panasonic Industry, DELO, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Reworkable Underfill Adhesive market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Reworkable Underfill Adhesive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Reworkable Underfill Adhesive Market, Segmentation by Type:

Capillary Flow Reworkable Underfill

Corner and Edge Bond Reworkable Underfill

No-Flow Reworkable Underfill

Pre-Applied Reworkable Underfill

Thermally Conductive Reworkable Underfill

Other

Global Reworkable Underfill Adhesive Market, Segmentation by Cure Mechanism:

Thermal Cure

UV and Heat Dual Cure

Reflow Cure

Low-Temperature Cure

Hybrid Cure

Other

Global Reworkable Underfill Adhesive Market, Segmentation by Performance Focus:

Standard Reliability

Low CTE and High Tg

Low Modulus Stress Relief

Low Ion and High Insulation

High Thermal Conductivity

Other

Global Reworkable Underfill Adhesive Market, Segmentation by Rework Mode:

Heat-Softening Rework

Thermal Decomposition Rework

Solvent-Assisted Rework

Local Heating and Mechanical Removal

Semi-Reworkable Removal

Other

Global Reworkable Underfill Adhesive Market, Segmentation by Application:

BGA and CSP Board-Level Reinforcement

Flip-Chip and WLCSP Packaging

PoP and Multi-Chip Module Assembly

Consumer Electronics Repairable Assembly

Automotive and Industrial Electronics

Other

Companies Profiled:

Henkel

MacDermid Alpha

Namics

ThreeBond

Panacol

YINCAE

Epoxyset

AI Technology

Panasonic Industry

DELO

Shin-Etsu Chemical

Weldbond

Key Questions Answered:

1. How big is the global Reworkable Underfill Adhesive market?
2. What is the demand of the global Reworkable Underfill Adhesive market?
3. What is the year over year growth of the global Reworkable Underfill Adhesive market?
4. What is the production and production value of the global Reworkable Underfill Adhesive market?
5. Who are the key producers in the global Reworkable Underfill Adhesive market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Reworkable Underfill Adhesive Introduction
- 1.2 World Reworkable Underfill Adhesive Supply & Forecast
 - 1.2.1 World Reworkable Underfill Adhesive Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Reworkable Underfill Adhesive Production (2021-2032)
 - 1.2.3 World Reworkable Underfill Adhesive Pricing Trends (2021-2032)
- 1.3 World Reworkable Underfill Adhesive Production by Region (Based on Production Site)
 - 1.3.1 World Reworkable Underfill Adhesive Production Value by Region (2021-2032)
 - 1.3.2 World Reworkable Underfill Adhesive Production by Region (2021-2032)
 - 1.3.3 World Reworkable Underfill Adhesive Average Price by Region (2021-2032)
 - 1.3.4 North America Reworkable Underfill Adhesive Production (2021-2032)
 - 1.3.5 Europe Reworkable Underfill Adhesive Production (2021-2032)
 - 1.3.6 China Reworkable Underfill Adhesive Production (2021-2032)
 - 1.3.7 Japan Reworkable Underfill Adhesive Production (2021-2032)
 - 1.3.8 India Reworkable Underfill Adhesive Production (2021-2032)
 - 1.3.9 Southeast Asia Reworkable Underfill Adhesive Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Reworkable Underfill Adhesive Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Reworkable Underfill Adhesive Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Reworkable Underfill Adhesive Demand (2021-2032)
- 2.2 World Reworkable Underfill Adhesive Consumption by Region
 - 2.2.1 World Reworkable Underfill Adhesive Consumption by Region (2021-2026)
 - 2.2.2 World Reworkable Underfill Adhesive Consumption Forecast by Region (2027-2032)
- 2.3 United States Reworkable Underfill Adhesive Consumption (2021-2032)
- 2.4 China Reworkable Underfill Adhesive Consumption (2021-2032)
- 2.5 Europe Reworkable Underfill Adhesive Consumption (2021-2032)
- 2.6 Japan Reworkable Underfill Adhesive Consumption (2021-2032)
- 2.7 South Korea Reworkable Underfill Adhesive Consumption (2021-2032)
- 2.8 ASEAN Reworkable Underfill Adhesive Consumption (2021-2032)
- 2.9 India Reworkable Underfill Adhesive Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Reworkable Underfill Adhesive Production Value by Manufacturer (2021-2026)
- 3.2 World Reworkable Underfill Adhesive Production by Manufacturer (2021-2026)
- 3.3 World Reworkable Underfill Adhesive Average Price by Manufacturer (2021-2026)
- 3.4 Reworkable Underfill Adhesive Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Reworkable Underfill Adhesive Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Reworkable Underfill Adhesive in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Reworkable Underfill Adhesive in 2025
- 3.6 Reworkable Underfill Adhesive Market: Overall Company Footprint Analysis
 - 3.6.1 Reworkable Underfill Adhesive Market: Region Footprint
 - 3.6.2 Reworkable Underfill Adhesive Market: Company Product Type Footprint
 - 3.6.3 Reworkable Underfill Adhesive Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Reworkable Underfill Adhesive Production Value Comparison
 - 4.1.1 United States VS China: Reworkable Underfill Adhesive Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Reworkable Underfill Adhesive Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Reworkable Underfill Adhesive Production Comparison
 - 4.2.1 United States VS China: Reworkable Underfill Adhesive Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Reworkable Underfill Adhesive Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Reworkable Underfill Adhesive Consumption Comparison
 - 4.3.1 United States VS China: Reworkable Underfill Adhesive Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Reworkable Underfill Adhesive Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Reworkable Underfill Adhesive Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Reworkable Underfill Adhesive Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Reworkable Underfill Adhesive Production Value (2021-2026)

4.4.3 United States Based Manufacturers Reworkable Underfill Adhesive Production (2021-2026)

4.5 China Based Reworkable Underfill Adhesive Manufacturers and Market Share

4.5.1 China Based Reworkable Underfill Adhesive Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Reworkable Underfill Adhesive Production Value (2021-2026)

4.5.3 China Based Manufacturers Reworkable Underfill Adhesive Production (2021-2026)

4.6 Rest of World Based Reworkable Underfill Adhesive Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Reworkable Underfill Adhesive Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Reworkable Underfill Adhesive Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Reworkable Underfill Adhesive Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Reworkable Underfill Adhesive Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Capillary Flow Reworkable Underfill

5.2.2 Corner and Edge Bond Reworkable Underfill

5.2.3 No-Flow Reworkable Underfill

5.2.4 Pre-Applied Reworkable Underfill

5.2.5 Thermally Conductive Reworkable Underfill

5.2.6 Other

5.3 Market Segment by Type

5.3.1 World Reworkable Underfill Adhesive Production by Type (2021-2032)

5.3.2 World Reworkable Underfill Adhesive Production Value by Type (2021-2032)

5.3.3 World Reworkable Underfill Adhesive Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CURE MECHANISM

6.1 World Reworkable Underfill Adhesive Market Size Overview by Cure Mechanism:
2021 VS 2025 VS 2032

6.2 Segment Introduction by Cure Mechanism

6.2.1 Thermal Cure

6.2.2 UV and Heat Dual Cure

6.2.3 Reflow Cure

6.2.4 Low-Temperature Cure

6.2.5 Hybrid Cure

6.2.6 Other

6.3 Market Segment by Cure Mechanism

6.3.1 World Reworkable Underfill Adhesive Production by Cure Mechanism
(2021-2032)

6.3.2 World Reworkable Underfill Adhesive Production Value by Cure Mechanism
(2021-2032)

6.3.3 World Reworkable Underfill Adhesive Average Price by Cure Mechanism
(2021-2032)

7 MARKET ANALYSIS BY PERFORMANCE FOCUS

7.1 World Reworkable Underfill Adhesive Market Size Overview by Performance Focus:
2021 VS 2025 VS 2032

7.2 Segment Introduction by Performance Focus

7.2.1 Standard Reliability

7.2.2 Low CTE and High Tg

7.2.3 Low Modulus Stress Relief

7.2.4 Low Ion and High Insulation

7.2.5 High Thermal Conductivity

7.2.6 Other

7.3 Market Segment by Performance Focus

7.3.1 World Reworkable Underfill Adhesive Production by Performance Focus
(2021-2032)

7.3.2 World Reworkable Underfill Adhesive Production Value by Performance Focus
(2021-2032)

7.3.3 World Reworkable Underfill Adhesive Average Price by Performance Focus

(2021-2032)

8 MARKET ANALYSIS BY REWORK MODE

8.1 World Reworkable Underfill Adhesive Market Size Overview by Rework Mode: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Rework Mode

8.2.1 Heat-Softening Rework

8.2.2 Thermal Decomposition Rework

8.2.3 Solvent-Assisted Rework

8.2.4 Local Heating and Mechanical Removal

8.2.5 Semi-Reworkable Removal

8.2.6 Other

8.3 Market Segment by Rework Mode

8.3.1 World Reworkable Underfill Adhesive Production by Rework Mode (2021-2032)

8.3.2 World Reworkable Underfill Adhesive Production Value by Rework Mode (2021-2032)

8.3.3 World Reworkable Underfill Adhesive Average Price by Rework Mode (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Reworkable Underfill Adhesive Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 BGA and CSP Board-Level Reinforcement

9.2.2 Flip-Chip and WLCSP Packaging

9.2.3 PoP and Multi-Chip Module Assembly

9.2.4 Consumer Electronics Repairable Assembly

9.2.5 Automotive and Industrial Electronics

9.2.6 Other

9.3 Market Segment by Application

9.3.1 World Reworkable Underfill Adhesive Production by Application (2021-2032)

9.3.2 World Reworkable Underfill Adhesive Production Value by Application (2021-2032)

9.3.3 World Reworkable Underfill Adhesive Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 Henkel

10.1.1 Henkel Details

10.1.2 Henkel Major Business

10.1.3 Henkel Reworkable Underfill Adhesive Product and Services

10.1.4 Henkel Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Henkel Recent Developments/Updates

10.1.6 Henkel Competitive Strengths & Weaknesses

10.2 MacDermid Alpha

10.2.1 MacDermid Alpha Details

10.2.2 MacDermid Alpha Major Business

10.2.3 MacDermid Alpha Reworkable Underfill Adhesive Product and Services

10.2.4 MacDermid Alpha Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 MacDermid Alpha Recent Developments/Updates

10.2.6 MacDermid Alpha Competitive Strengths & Weaknesses

10.3 Namics

10.3.1 Namics Details

10.3.2 Namics Major Business

10.3.3 Namics Reworkable Underfill Adhesive Product and Services

10.3.4 Namics Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Namics Recent Developments/Updates

10.3.6 Namics Competitive Strengths & Weaknesses

10.4 ThreeBond

10.4.1 ThreeBond Details

10.4.2 ThreeBond Major Business

10.4.3 ThreeBond Reworkable Underfill Adhesive Product and Services

10.4.4 ThreeBond Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.4.5 ThreeBond Recent Developments/Updates

10.4.6 ThreeBond Competitive Strengths & Weaknesses

10.5 Panacol

10.5.1 Panacol Details

10.5.2 Panacol Major Business

10.5.3 Panacol Reworkable Underfill Adhesive Product and Services

10.5.4 Panacol Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.5.5 Panacol Recent Developments/Updates

- 10.5.6 Panacol Competitive Strengths & Weaknesses
- 10.6 YINCAE
 - 10.6.1 YINCAE Details
 - 10.6.2 YINCAE Major Business
 - 10.6.3 YINCAE Reworkable Underfill Adhesive Product and Services
 - 10.6.4 YINCAE Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 YINCAE Recent Developments/Updates
 - 10.6.6 YINCAE Competitive Strengths & Weaknesses
- 10.7 Epoxyset
 - 10.7.1 Epoxyset Details
 - 10.7.2 Epoxyset Major Business
 - 10.7.3 Epoxyset Reworkable Underfill Adhesive Product and Services
 - 10.7.4 Epoxyset Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Epoxyset Recent Developments/Updates
 - 10.7.6 Epoxyset Competitive Strengths & Weaknesses
- 10.8 AI Technology
 - 10.8.1 AI Technology Details
 - 10.8.2 AI Technology Major Business
 - 10.8.3 AI Technology Reworkable Underfill Adhesive Product and Services
 - 10.8.4 AI Technology Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 AI Technology Recent Developments/Updates
 - 10.8.6 AI Technology Competitive Strengths & Weaknesses
- 10.9 Panasonic Industry
 - 10.9.1 Panasonic Industry Details
 - 10.9.2 Panasonic Industry Major Business
 - 10.9.3 Panasonic Industry Reworkable Underfill Adhesive Product and Services
 - 10.9.4 Panasonic Industry Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.9.5 Panasonic Industry Recent Developments/Updates
 - 10.9.6 Panasonic Industry Competitive Strengths & Weaknesses
- 10.10 DELO
 - 10.10.1 DELO Details
 - 10.10.2 DELO Major Business
 - 10.10.3 DELO Reworkable Underfill Adhesive Product and Services
 - 10.10.4 DELO Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 10.10.5 DELO Recent Developments/Updates
- 10.10.6 DELO Competitive Strengths & Weaknesses
- 10.11 Shin-Etsu Chemical
 - 10.11.1 Shin-Etsu Chemical Details
 - 10.11.2 Shin-Etsu Chemical Major Business
 - 10.11.3 Shin-Etsu Chemical Reworkable Underfill Adhesive Product and Services
 - 10.11.4 Shin-Etsu Chemical Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.11.5 Shin-Etsu Chemical Recent Developments/Updates
 - 10.11.6 Shin-Etsu Chemical Competitive Strengths & Weaknesses
- 10.12 Weldbond
 - 10.12.1 Weldbond Details
 - 10.12.2 Weldbond Major Business
 - 10.12.3 Weldbond Reworkable Underfill Adhesive Product and Services
 - 10.12.4 Weldbond Reworkable Underfill Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.12.5 Weldbond Recent Developments/Updates
 - 10.12.6 Weldbond Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Reworkable Underfill Adhesive Industry Chain
- 11.2 Reworkable Underfill Adhesive Upstream Analysis
 - 11.2.1 Reworkable Underfill Adhesive Core Raw Materials
 - 11.2.2 Main Manufacturers of Reworkable Underfill Adhesive Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Reworkable Underfill Adhesive Production Mode
- 11.6 Reworkable Underfill Adhesive Procurement Model
- 11.7 Reworkable Underfill Adhesive Industry Sales Model and Sales Channels
 - 11.7.1 Reworkable Underfill Adhesive Sales Model
 - 11.7.2 Reworkable Underfill Adhesive Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Reworkable Underfill Adhesive Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Reworkable Underfill Adhesive Production Value by Region (2021-2026) & (USD Million)

Table 3. World Reworkable Underfill Adhesive Production Value by Region (2027-2032) & (USD Million)

Table 4. World Reworkable Underfill Adhesive Production Value Market Share by Region (2021-2026)

Table 5. World Reworkable Underfill Adhesive Production Value Market Share by Region (2027-2032)

Table 6. World Reworkable Underfill Adhesive Production by Region (2021-2026) & (kg)

Table 7. World Reworkable Underfill Adhesive Production by Region (2027-2032) & (kg)

Table 8. World Reworkable Underfill Adhesive Production Market Share by Region (2021-2026)

Table 9. World Reworkable Underfill Adhesive Production Market Share by Region (2027-2032)

Table 10. World Reworkable Underfill Adhesive Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Reworkable Underfill Adhesive Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Reworkable Underfill Adhesive Major Market Trends

Table 13. World Reworkable Underfill Adhesive Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (kg)

Table 14. World Reworkable Underfill Adhesive Consumption by Region (2021-2026) & (kg)

Table 15. World Reworkable Underfill Adhesive Consumption Forecast by Region (2027-2032) & (kg)

Table 16. World Reworkable Underfill Adhesive Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Reworkable Underfill Adhesive Producers in 2025

Table 18. World Reworkable Underfill Adhesive Production by Manufacturer (2021-2026) & (kg)

Table 19. Production Market Share of Key Reworkable Underfill Adhesive Producers in 2025

Table 20. World Reworkable Underfill Adhesive Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Reworkable Underfill Adhesive Company Evaluation Quadrant

Table 22. World Reworkable Underfill Adhesive Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Reworkable Underfill Adhesive Production Site of Key Manufacturer

Table 24. Reworkable Underfill Adhesive Market: Company Product Type Footprint

Table 25. Reworkable Underfill Adhesive Market: Company Product Application Footprint

Table 26. Reworkable Underfill Adhesive Competitive Factors

Table 27. Reworkable Underfill Adhesive New Entrant and Capacity Expansion Plans

Table 28. Reworkable Underfill Adhesive Mergers & Acquisitions Activity

Table 29. United States VS China Reworkable Underfill Adhesive Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Reworkable Underfill Adhesive Production Comparison, (2021 & 2025 & 2032) & (kg)

Table 31. United States VS China Reworkable Underfill Adhesive Consumption Comparison, (2021 & 2025 & 2032) & (kg)

Table 32. United States Based Reworkable Underfill Adhesive Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Reworkable Underfill Adhesive Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Reworkable Underfill Adhesive Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Reworkable Underfill Adhesive Production (2021-2026) & (kg)

Table 36. United States Based Manufacturers Reworkable Underfill Adhesive Production Market Share (2021-2026)

Table 37. China Based Reworkable Underfill Adhesive Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Reworkable Underfill Adhesive Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Reworkable Underfill Adhesive Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Reworkable Underfill Adhesive Production, (2021-2026) & (kg)

Table 41. China Based Manufacturers Reworkable Underfill Adhesive Production Market Share (2021-2026)

Table 42. Rest of World Based Reworkable Underfill Adhesive Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Reworkable Underfill Adhesive Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Reworkable Underfill Adhesive Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Reworkable Underfill Adhesive Production, (2021-2026) & (kg)

Table 46. Rest of World Based Manufacturers Reworkable Underfill Adhesive Production Market Share (2021-2026)

Table 47. World Reworkable Underfill Adhesive Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Reworkable Underfill Adhesive Production by Type (2021-2026) & (kg)

Table 49. World Reworkable Underfill Adhesive Production by Type (2027-2032) & (kg)

Table 50. World Reworkable Underfill Adhesive Production Value by Type (2021-2026) & (USD Million)

Table 51. World Reworkable Underfill Adhesive Production Value by Type (2027-2032) & (USD Million)

Table 52. World Reworkable Underfill Adhesive Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Reworkable Underfill Adhesive Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Reworkable Underfill Adhesive Production Value by Cure Mechanism, (USD Million), 2021 & 2025 & 2032

Table 55. World Reworkable Underfill Adhesive Production by Cure Mechanism (2021-2026) & (kg)

Table 56. World Reworkable Underfill Adhesive Production by Cure Mechanism (2027-2032) & (kg)

Table 57. World Reworkable Underfill Adhesive Production Value by Cure Mechanism (2021-2026) & (USD Million)

Table 58. World Reworkable Underfill Adhesive Production Value by Cure Mechanism (2027-2032) & (USD Million)

Table 59. World Reworkable Underfill Adhesive Average Price by Cure Mechanism (2021-2026) & (US\$/kg)

Table 60. World Reworkable Underfill Adhesive Average Price by Cure Mechanism (2027-2032) & (US\$/kg)

Table 61. World Reworkable Underfill Adhesive Production Value by Performance Focus, (USD Million), 2021 & 2025 & 2032

Table 62. World Reworkable Underfill Adhesive Production by Performance Focus

(2021-2026) & (kg)

Table 63. World Reworkable Underfill Adhesive Production by Performance Focus (2027-2032) & (kg)

Table 64. World Reworkable Underfill Adhesive Production Value by Performance Focus (2021-2026) & (USD Million)

Table 65. World Reworkable Underfill Adhesive Production Value by Performance Focus (2027-2032) & (USD Million)

Table 66. World Reworkable Underfill Adhesive Average Price by Performance Focus (2021-2026) & (US\$/kg)

Table 67. World Reworkable Underfill Adhesive Average Price by Performance Focus (2027-2032) & (US\$/kg)

Table 68. World Reworkable Underfill Adhesive Production Value by Rework Mode, (USD Million), 2021 & 2025 & 2032

Table 69. World Reworkable Underfill Adhesive Production by Rework Mode (2021-2026) & (kg)

Table 70. World Reworkable Underfill Adhesive Production by Rework Mode (2027-2032) & (kg)

Table 71. World Reworkable Underfill Adhesive Production Value by Rework Mode (2021-2026) & (USD Million)

Table 72. World Reworkable Underfill Adhesive Production Value by Rework Mode (2027-2032) & (USD Million)

Table 73. World Reworkable Underfill Adhesive Average Price by Rework Mode (2021-2026) & (US\$/kg)

Table 74. World Reworkable Underfill Adhesive Average Price by Rework Mode (2027-2032) & (US\$/kg)

Table 75. World Reworkable Underfill Adhesive Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Reworkable Underfill Adhesive Production by Application (2021-2026) & (kg)

Table 77. World Reworkable Underfill Adhesive Production by Application (2027-2032) & (kg)

Table 78. World Reworkable Underfill Adhesive Production Value by Application (2021-2026) & (USD Million)

Table 79. World Reworkable Underfill Adhesive Production Value by Application (2027-2032) & (USD Million)

Table 80. World Reworkable Underfill Adhesive Average Price by Application (2021-2026) & (US\$/kg)

Table 81. World Reworkable Underfill Adhesive Average Price by Application (2027-2032) & (US\$/kg)

Table 82. Henkel Basic Information, Manufacturing Base and Competitors
Table 83. Henkel Major Business
Table 84. Henkel Reworkable Underfill Adhesive Product and Services
Table 85. Henkel Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 86. Henkel Recent Developments/Updates
Table 87. Henkel Competitive Strengths & Weaknesses
Table 88. MacDermid Alpha Basic Information, Manufacturing Base and Competitors
Table 89. MacDermid Alpha Major Business
Table 90. MacDermid Alpha Reworkable Underfill Adhesive Product and Services
Table 91. MacDermid Alpha Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. MacDermid Alpha Recent Developments/Updates
Table 93. MacDermid Alpha Competitive Strengths & Weaknesses
Table 94. Namics Basic Information, Manufacturing Base and Competitors
Table 95. Namics Major Business
Table 96. Namics Reworkable Underfill Adhesive Product and Services
Table 97. Namics Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 98. Namics Recent Developments/Updates
Table 99. Namics Competitive Strengths & Weaknesses
Table 100. ThreeBond Basic Information, Manufacturing Base and Competitors
Table 101. ThreeBond Major Business
Table 102. ThreeBond Reworkable Underfill Adhesive Product and Services
Table 103. ThreeBond Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 104. ThreeBond Recent Developments/Updates
Table 105. ThreeBond Competitive Strengths & Weaknesses
Table 106. Panacol Basic Information, Manufacturing Base and Competitors
Table 107. Panacol Major Business
Table 108. Panacol Reworkable Underfill Adhesive Product and Services
Table 109. Panacol Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 110. Panacol Recent Developments/Updates
Table 111. Panacol Competitive Strengths & Weaknesses
Table 112. YINCAE Basic Information, Manufacturing Base and Competitors
Table 113. YINCAE Major Business
Table 114. YINCAE Reworkable Underfill Adhesive Product and Services
Table 115. YINCAE Reworkable Underfill Adhesive Production (kg), Price (US\$/kg),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. YINCAE Recent Developments/Updates

Table 117. YINCAE Competitive Strengths & Weaknesses

Table 118. Epoxysset Basic Information, Manufacturing Base and Competitors

Table 119. Epoxysset Major Business

Table 120. Epoxysset Reworkable Underfill Adhesive Product and Services

Table 121. Epoxysset Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Epoxysset Recent Developments/Updates

Table 123. Epoxysset Competitive Strengths & Weaknesses

Table 124. AI Technology Basic Information, Manufacturing Base and Competitors

Table 125. AI Technology Major Business

Table 126. AI Technology Reworkable Underfill Adhesive Product and Services

Table 127. AI Technology Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. AI Technology Recent Developments/Updates

Table 129. AI Technology Competitive Strengths & Weaknesses

Table 130. Panasonic Industry Basic Information, Manufacturing Base and Competitors

Table 131. Panasonic Industry Major Business

Table 132. Panasonic Industry Reworkable Underfill Adhesive Product and Services

Table 133. Panasonic Industry Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Panasonic Industry Recent Developments/Updates

Table 135. Panasonic Industry Competitive Strengths & Weaknesses

Table 136. DELO Basic Information, Manufacturing Base and Competitors

Table 137. DELO Major Business

Table 138. DELO Reworkable Underfill Adhesive Product and Services

Table 139. DELO Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. DELO Recent Developments/Updates

Table 141. DELO Competitive Strengths & Weaknesses

Table 142. Shin-Etsu Chemical Basic Information, Manufacturing Base and Competitors

Table 143. Shin-Etsu Chemical Major Business

Table 144. Shin-Etsu Chemical Reworkable Underfill Adhesive Product and Services

Table 145. Shin-Etsu Chemical Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. Shin-Etsu Chemical Recent Developments/Updates

Table 147. Shin-Etsu Chemical Competitive Strengths & Weaknesses

Table 148. Weldbond Basic Information, Manufacturing Base and Competitors

Table 149. Weldbond Major Business

Table 150. Weldbond Reworkable Underfill Adhesive Product and Services

Table 151. Weldbond Reworkable Underfill Adhesive Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. Weldbond Recent Developments/Updates

Table 153. Weldbond Competitive Strengths & Weaknesses

Table 154. Global Key Players of Reworkable Underfill Adhesive Upstream (Raw Materials)

Table 155. Global Reworkable Underfill Adhesive Typical Customers

Table 156. Reworkable Underfill Adhesive Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Reworkable Underfill Adhesive Picture

Figure 2. World Reworkable Underfill Adhesive Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Reworkable Underfill Adhesive Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Reworkable Underfill Adhesive Production (2021-2032) & (kg)

Figure 5. World Reworkable Underfill Adhesive Average Price (2021-2032) & (US\$/kg)

Figure 6. World Reworkable Underfill Adhesive Production Value Market Share by Region (2021-2032)

Figure 7. World Reworkable Underfill Adhesive Production Market Share by Region (2021-2032)

Figure 8. North America Reworkable Underfill Adhesive Production (2021-2032) & (kg)

Figure 9. Europe Reworkable Underfill Adhesive Production (2021-2032) & (kg)

Figure 10. China Reworkable Underfill Adhesive Production (2021-2032) & (kg)

Figure 11. Japan Reworkable Underfill Adhesive Production (2021-2032) & (kg)

Figure 12. India Reworkable Underfill Adhesive Production (2021-2032) & (kg)

Figure 13. Southeast Asia Reworkable Underfill Adhesive Production (2021-2032) & (kg)

Figure 14. Reworkable Underfill Adhesive Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Reworkable Underfill Adhesive Consumption (2021-2032) & (kg)

Figure 17. World Reworkable Underfill Adhesive Consumption Market Share by Region (2021-2032)

Figure 18. United States Reworkable Underfill Adhesive Consumption (2021-2032) & (kg)

Figure 19. China Reworkable Underfill Adhesive Consumption (2021-2032) & (kg)

Figure 20. Europe Reworkable Underfill Adhesive Consumption (2021-2032) & (kg)

Figure 21. Japan Reworkable Underfill Adhesive Consumption (2021-2032) & (kg)

Figure 22. South Korea Reworkable Underfill Adhesive Consumption (2021-2032) & (kg)

Figure 23. ASEAN Reworkable Underfill Adhesive Consumption (2021-2032) & (kg)

Figure 24. India Reworkable Underfill Adhesive Consumption (2021-2032) & (kg)

Figure 25. Producer Shipments of Reworkable Underfill Adhesive by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Reworkable Underfill

Adhesive Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Reworkable Underfill

Adhesive Markets in 2025

Figure 28. United States VS China: Reworkable Underfill Adhesive Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Reworkable Underfill Adhesive Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Reworkable Underfill Adhesive Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Reworkable Underfill Adhesive Production Market Share 2025

Figure 32. China Based Manufacturers Reworkable Underfill Adhesive Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Reworkable Underfill Adhesive Production Market Share 2025

Figure 34. World Reworkable Underfill Adhesive Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Reworkable Underfill Adhesive Production Value Market Share by Type in 2025

Figure 36. Capillary Flow Reworkable Underfill

Figure 37. Corner and Edge Bond Reworkable Underfill

Figure 38. No-Flow Reworkable Underfill

Figure 39. Pre-Applied Reworkable Underfill

Figure 40. Thermally Conductive Reworkable Underfill

Figure 41. Other

Figure 42. World Reworkable Underfill Adhesive Production Market Share by Type (2021-2032)

Figure 43. World Reworkable Underfill Adhesive Production Value Market Share by Type (2021-2032)

Figure 44. World Reworkable Underfill Adhesive Average Price by Type (2021-2032) & (US\$/kg)

Figure 45. World Reworkable Underfill Adhesive Production Value by Cure Mechanism, (USD Million), 2021 & 2025 & 2032

Figure 46. World Reworkable Underfill Adhesive Production Value Market Share by Cure Mechanism in 2025

Figure 47. Thermal Cure

Figure 48. UV and Heat Dual Cure

Figure 49. Reflow Cure

Figure 50. Low-Temperature Cure

Figure 51. Hybrid Cure

Figure 52. Other

Figure 53. World Reworkable Underfill Adhesive Production Market Share by Cure Mechanism (2021-2032)

Figure 54. World Reworkable Underfill Adhesive Production Value Market Share by Cure Mechanism (2021-2032)

Figure 55. World Reworkable Underfill Adhesive Average Price by Cure Mechanism (2021-2032) & (US\$/kg)

Figure 56. World Reworkable Underfill Adhesive Production Value by Performance Focus, (USD Million), 2021 & 2025 & 2032

Figure 57. World Reworkable Underfill Adhesive Production Value Market Share by Performance Focus in 2025

Figure 58. Standard Reliability

Figure 59. Low CTE and High Tg

Figure 60. Low Modulus Stress Relief

Figure 61. Low Ion and High Insulation

Figure 62. High Thermal Conductivity

Figure 63. Other

Figure 64. World Reworkable Underfill Adhesive Production Market Share by Performance Focus (2021-2032)

Figure 65. World Reworkable Underfill Adhesive Production Value Market Share by Performance Focus (2021-2032)

Figure 66. World Reworkable Underfill Adhesive Average Price by Performance Focus (2021-2032) & (US\$/kg)

Figure 67. World Reworkable Underfill Adhesive Production Value by Rework Mode, (USD Million), 2021 & 2025 & 2032

Figure 68. World Reworkable Underfill Adhesive Production Value Market Share by Rework Mode in 2025

Figure 69. Heat-Softening Rework

Figure 70. Thermal Decomposition Rework

Figure 71. Solvent-Assisted Rework

Figure 72. Local Heating and Mechanical Removal

Figure 73. Semi-Reworkable Removal

Figure 74. Other

Figure 75. World Reworkable Underfill Adhesive Production Market Share by Rework Mode (2021-2032)

Figure 76. World Reworkable Underfill Adhesive Production Value Market Share by Rework Mode (2021-2032)

Figure 77. World Reworkable Underfill Adhesive Average Price by Rework Mode

(2021-2032) & (US\$/kg)

Figure 78. World Reworkable Underfill Adhesive Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 79. World Reworkable Underfill Adhesive Production Value Market Share by Application in 2025

Figure 80. BGA and CSP Board-Level Reinforcement

Figure 81. Flip-Chip and WLCSP Packaging

Figure 82. PoP and Multi-Chip Module Assembly

Figure 83. Consumer Electronics Repairable Assembly

Figure 84. Automotive and Industrial Electronics

Figure 85. Other

Figure 86. World Reworkable Underfill Adhesive Production Market Share by Application (2021-2032)

Figure 87. World Reworkable Underfill Adhesive Production Value Market Share by Application (2021-2032)

Figure 88. World Reworkable Underfill Adhesive Average Price by Application (2021-2032) & (US\$/kg)

Figure 89. Reworkable Underfill Adhesive Industry Chain

Figure 90. Reworkable Underfill Adhesive Procurement Model

Figure 91. Reworkable Underfill Adhesive Sales Model

Figure 92. Reworkable Underfill Adhesive Sales Channels, Direct Sales, and Distribution

Figure 93. Methodology

Figure 94. Research Process and Data Source

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