

Global Reworkable Underfill Adhesive Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Reworkable Underfill Adhesive market size was valued at US\$ 149 million in 2025 and is forecast to a readjusted size of US\$ 222 million by 2032 with a CAGR of 5.9% during review period.

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 is a detailed and comprehensive analysis for global Reworkable Underfill Adhesive market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Reworkable Underfill Adhesive market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Reworkable Underfill Adhesive market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Reworkable Underfill Adhesive market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Reworkable Underfill Adhesive market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Reworkable Underfill Adhesive

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Reworkable Underfill Adhesive market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Reworkable Underfill Adhesive market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment 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

Market segment by Cure Mechanism

Thermal Cure

UV and Heat Dual Cure

Reflow Cure

Low-Temperature Cure

Hybrid Cure

Other

Market segment by Performance Focus

Standard Reliability

Low CTE and High Tg

Low Modulus Stress Relief

Low Ion and High Insulation

High Thermal Conductivity

Other

Market segment by Rework Mode

Heat-Softening Rework

Thermal Decomposition Rework

Solvent-Assisted Rework

Local Heating and Mechanical Removal

Semi-Reworkable Removal

Other

Market segment 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

Major players covered

Henkel

MacDermid Alpha

Namics

ThreeBond

Panacol

YINCAE

Epoxyset

AI Technology

Panasonic Industry

DELO

Shin-Etsu Chemical

Weldbond

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Reworkable Underfill Adhesive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Reworkable Underfill Adhesive, with price, sales quantity, revenue, and global market share of Reworkable Underfill Adhesive from 2021 to 2026.

Chapter 3, the Reworkable Underfill Adhesive competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Reworkable Underfill Adhesive breakdown data are shown at the

regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Reworkable Underfill Adhesive market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Reworkable Underfill Adhesive.

Chapter 14 and 15, to describe Reworkable Underfill Adhesive sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Reworkable Underfill Adhesive Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Capillary Flow Reworkable Underfill

1.3.3 Corner and Edge Bond Reworkable Underfill

1.3.4 No-Flow Reworkable Underfill

1.3.5 Pre-Applied Reworkable Underfill

1.3.6 Thermally Conductive Reworkable Underfill

1.3.7 Other

1.4 Market Analysis by Cure Mechanism

1.4.1 Overview: Global Reworkable Underfill Adhesive Consumption Value by Cure Mechanism: 2021 Versus 2025 Versus 2032

1.4.2 Thermal Cure

1.4.3 UV and Heat Dual Cure

1.4.4 Reflow Cure

1.4.5 Low-Temperature Cure

1.4.6 Hybrid Cure

1.4.7 Other

1.5 Market Analysis by Performance Focus

1.5.1 Overview: Global Reworkable Underfill Adhesive Consumption Value by Performance Focus: 2021 Versus 2025 Versus 2032

1.5.2 Standard Reliability

1.5.3 Low CTE and High Tg

1.5.4 Low Modulus Stress Relief

1.5.5 Low Ion and High Insulation

1.5.6 High Thermal Conductivity

1.5.7 Other

1.6 Market Analysis by Rework Mode

1.6.1 Overview: Global Reworkable Underfill Adhesive Consumption Value by Rework Mode: 2021 Versus 2025 Versus 2032

1.6.2 Heat-Softening Rework

1.6.3 Thermal Decomposition Rework

1.6.4 Solvent-Assisted Rework

- 1.6.5 Local Heating and Mechanical Removal
- 1.6.6 Semi-Reworkable Removal
- 1.6.7 Other
- 1.7 Market Analysis by Application
 - 1.7.1 Overview: Global Reworkable Underfill Adhesive Consumption Value by Application: 2021 Versus 2025 Versus 2032
 - 1.7.2 BGA and CSP Board-Level Reinforcement
 - 1.7.3 Flip-Chip and WLCSP Packaging
 - 1.7.4 PoP and Multi-Chip Module Assembly
 - 1.7.5 Consumer Electronics Repairable Assembly
 - 1.7.6 Automotive and Industrial Electronics
 - 1.7.7 Other
- 1.8 Global Reworkable Underfill Adhesive Market Size & Forecast
 - 1.8.1 Global Reworkable Underfill Adhesive Consumption Value (2021 & 2025 & 2032)
 - 1.8.2 Global Reworkable Underfill Adhesive Sales Quantity (2021-2032)
 - 1.8.3 Global Reworkable Underfill Adhesive Average Price (2021-2032)

2 MANUFACTURERS PROFILES

- 2.1 Henkel
 - 2.1.1 Henkel Details
 - 2.1.2 Henkel Major Business
 - 2.1.3 Henkel Reworkable Underfill Adhesive Product and Services
 - 2.1.4 Henkel Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.1.5 Henkel Recent Developments/Updates
- 2.2 MacDermid Alpha
 - 2.2.1 MacDermid Alpha Details
 - 2.2.2 MacDermid Alpha Major Business
 - 2.2.3 MacDermid Alpha Reworkable Underfill Adhesive Product and Services
 - 2.2.4 MacDermid Alpha Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 MacDermid Alpha Recent Developments/Updates
- 2.3 Namics
 - 2.3.1 Namics Details
 - 2.3.2 Namics Major Business
 - 2.3.3 Namics Reworkable Underfill Adhesive Product and Services
 - 2.3.4 Namics Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.3.5 Namics Recent Developments/Updates
- 2.4 ThreeBond
 - 2.4.1 ThreeBond Details
 - 2.4.2 ThreeBond Major Business
 - 2.4.3 ThreeBond Reworkable Underfill Adhesive Product and Services
 - 2.4.4 ThreeBond Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 ThreeBond Recent Developments/Updates
- 2.5 Panacol
 - 2.5.1 Panacol Details
 - 2.5.2 Panacol Major Business
 - 2.5.3 Panacol Reworkable Underfill Adhesive Product and Services
 - 2.5.4 Panacol Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Panacol Recent Developments/Updates
- 2.6 YINCAE
 - 2.6.1 YINCAE Details
 - 2.6.2 YINCAE Major Business
 - 2.6.3 YINCAE Reworkable Underfill Adhesive Product and Services
 - 2.6.4 YINCAE Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 YINCAE Recent Developments/Updates
- 2.7 Epoxysset
 - 2.7.1 Epoxysset Details
 - 2.7.2 Epoxysset Major Business
 - 2.7.3 Epoxysset Reworkable Underfill Adhesive Product and Services
 - 2.7.4 Epoxysset Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Epoxysset Recent Developments/Updates
- 2.8 AI Technology
 - 2.8.1 AI Technology Details
 - 2.8.2 AI Technology Major Business
 - 2.8.3 AI Technology Reworkable Underfill Adhesive Product and Services
 - 2.8.4 AI Technology Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 AI Technology Recent Developments/Updates
- 2.9 Panasonic Industry
 - 2.9.1 Panasonic Industry Details
 - 2.9.2 Panasonic Industry Major Business

- 2.9.3 Panasonic Industry Reworkable Underfill Adhesive Product and Services
- 2.9.4 Panasonic Industry Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.9.5 Panasonic Industry Recent Developments/Updates
- 2.10 DELO
 - 2.10.1 DELO Details
 - 2.10.2 DELO Major Business
 - 2.10.3 DELO Reworkable Underfill Adhesive Product and Services
 - 2.10.4 DELO Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 DELO Recent Developments/Updates
- 2.11 Shin-Etsu Chemical
 - 2.11.1 Shin-Etsu Chemical Details
 - 2.11.2 Shin-Etsu Chemical Major Business
 - 2.11.3 Shin-Etsu Chemical Reworkable Underfill Adhesive Product and Services
 - 2.11.4 Shin-Etsu Chemical Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Shin-Etsu Chemical Recent Developments/Updates
- 2.12 Weldbond
 - 2.12.1 Weldbond Details
 - 2.12.2 Weldbond Major Business
 - 2.12.3 Weldbond Reworkable Underfill Adhesive Product and Services
 - 2.12.4 Weldbond Reworkable Underfill Adhesive Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Weldbond Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: REWORKABLE UNDERFILL ADHESIVE BY MANUFACTURER

- 3.1 Global Reworkable Underfill Adhesive Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Reworkable Underfill Adhesive Revenue by Manufacturer (2021-2026)
- 3.3 Global Reworkable Underfill Adhesive Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Reworkable Underfill Adhesive by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Reworkable Underfill Adhesive Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Reworkable Underfill Adhesive Manufacturer Market Share in 2025
- 3.5 Reworkable Underfill Adhesive Market: Overall Company Footprint Analysis
 - 3.5.1 Reworkable Underfill Adhesive Market: Region Footprint

- 3.5.2 Reworkable Underfill Adhesive Market: Company Product Type Footprint
- 3.5.3 Reworkable Underfill Adhesive Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Reworkable Underfill Adhesive Market Size by Region
 - 4.1.1 Global Reworkable Underfill Adhesive Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Reworkable Underfill Adhesive Consumption Value by Region (2021-2032)
 - 4.1.3 Global Reworkable Underfill Adhesive Average Price by Region (2021-2032)
- 4.2 North America Reworkable Underfill Adhesive Consumption Value (2021-2032)
- 4.3 Europe Reworkable Underfill Adhesive Consumption Value (2021-2032)
- 4.4 Asia-Pacific Reworkable Underfill Adhesive Consumption Value (2021-2032)
- 4.5 South America Reworkable Underfill Adhesive Consumption Value (2021-2032)
- 4.6 Middle East & Africa Reworkable Underfill Adhesive Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Reworkable Underfill Adhesive Sales Quantity by Type (2021-2032)
- 5.2 Global Reworkable Underfill Adhesive Consumption Value by Type (2021-2032)
- 5.3 Global Reworkable Underfill Adhesive Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Reworkable Underfill Adhesive Sales Quantity by Application (2021-2032)
- 6.2 Global Reworkable Underfill Adhesive Consumption Value by Application (2021-2032)
- 6.3 Global Reworkable Underfill Adhesive Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Reworkable Underfill Adhesive Sales Quantity by Type (2021-2032)
- 7.2 North America Reworkable Underfill Adhesive Sales Quantity by Application (2021-2032)
- 7.3 North America Reworkable Underfill Adhesive Market Size by Country
 - 7.3.1 North America Reworkable Underfill Adhesive Sales Quantity by Country

(2021-2032)

7.3.2 North America Reworkable Underfill Adhesive Consumption Value by Country

(2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Reworkable Underfill Adhesive Sales Quantity by Type (2021-2032)

8.2 Europe Reworkable Underfill Adhesive Sales Quantity by Application (2021-2032)

8.3 Europe Reworkable Underfill Adhesive Market Size by Country

8.3.1 Europe Reworkable Underfill Adhesive Sales Quantity by Country (2021-2032)

8.3.2 Europe Reworkable Underfill Adhesive Consumption Value by Country

(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Reworkable Underfill Adhesive Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Reworkable Underfill Adhesive Sales Quantity by Application
(2021-2032)

9.3 Asia-Pacific Reworkable Underfill Adhesive Market Size by Region

9.3.1 Asia-Pacific Reworkable Underfill Adhesive Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific Reworkable Underfill Adhesive Consumption Value by Region

(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Reworkable Underfill Adhesive Sales Quantity by Type (2021-2032)
- 10.2 South America Reworkable Underfill Adhesive Sales Quantity by Application (2021-2032)
- 10.3 South America Reworkable Underfill Adhesive Market Size by Country
 - 10.3.1 South America Reworkable Underfill Adhesive Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Reworkable Underfill Adhesive Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Reworkable Underfill Adhesive Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Reworkable Underfill Adhesive Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Reworkable Underfill Adhesive Market Size by Country
 - 11.3.1 Middle East & Africa Reworkable Underfill Adhesive Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Reworkable Underfill Adhesive Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Reworkable Underfill Adhesive Market Drivers
- 12.2 Reworkable Underfill Adhesive Market Restraints
- 12.3 Reworkable Underfill Adhesive Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Reworkable Underfill Adhesive and Key Manufacturers

13.2 Manufacturing Costs Percentage of Reworkable Underfill Adhesive

13.3 Reworkable Underfill Adhesive Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Reworkable Underfill Adhesive Typical Distributors

14.3 Reworkable Underfill Adhesive Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Reworkable Underfill Adhesive Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Reworkable Underfill Adhesive Consumption Value by Cure Mechanism, (USD Million), 2021 & 2025 & 2032

Table 3. Global Reworkable Underfill Adhesive Consumption Value by Performance Focus, (USD Million), 2021 & 2025 & 2032

Table 4. Global Reworkable Underfill Adhesive Consumption Value by Rework Mode, (USD Million), 2021 & 2025 & 2032

Table 5. Global Reworkable Underfill Adhesive Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Henkel Basic Information, Manufacturing Base and Competitors

Table 7. Henkel Major Business

Table 8. Henkel Reworkable Underfill Adhesive Product and Services

Table 9. Henkel Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Henkel Recent Developments/Updates

Table 11. MacDermid Alpha Basic Information, Manufacturing Base and Competitors

Table 12. MacDermid Alpha Major Business

Table 13. MacDermid Alpha Reworkable Underfill Adhesive Product and Services

Table 14. MacDermid Alpha Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. MacDermid Alpha Recent Developments/Updates

Table 16. Namics Basic Information, Manufacturing Base and Competitors

Table 17. Namics Major Business

Table 18. Namics Reworkable Underfill Adhesive Product and Services

Table 19. Namics Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Namics Recent Developments/Updates

Table 21. ThreeBond Basic Information, Manufacturing Base and Competitors

Table 22. ThreeBond Major Business

Table 23. ThreeBond Reworkable Underfill Adhesive Product and Services

Table 24. ThreeBond Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. ThreeBond Recent Developments/Updates

Table 26. Panacol Basic Information, Manufacturing Base and Competitors
Table 27. Panacol Major Business
Table 28. Panacol Reworkable Underfill Adhesive Product and Services
Table 29. Panacol Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 30. Panacol Recent Developments/Updates
Table 31. YINCAE Basic Information, Manufacturing Base and Competitors
Table 32. YINCAE Major Business
Table 33. YINCAE Reworkable Underfill Adhesive Product and Services
Table 34. YINCAE Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 35. YINCAE Recent Developments/Updates
Table 36. Epoxyset Basic Information, Manufacturing Base and Competitors
Table 37. Epoxyset Major Business
Table 38. Epoxyset Reworkable Underfill Adhesive Product and Services
Table 39. Epoxyset Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 40. Epoxyset Recent Developments/Updates
Table 41. AI Technology Basic Information, Manufacturing Base and Competitors
Table 42. AI Technology Major Business
Table 43. AI Technology Reworkable Underfill Adhesive Product and Services
Table 44. AI Technology Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 45. AI Technology Recent Developments/Updates
Table 46. Panasonic Industry Basic Information, Manufacturing Base and Competitors
Table 47. Panasonic Industry Major Business
Table 48. Panasonic Industry Reworkable Underfill Adhesive Product and Services
Table 49. Panasonic Industry Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 50. Panasonic Industry Recent Developments/Updates
Table 51. DELO Basic Information, Manufacturing Base and Competitors
Table 52. DELO Major Business
Table 53. DELO Reworkable Underfill Adhesive Product and Services
Table 54. DELO Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 55. DELO Recent Developments/Updates
Table 56. Shin-Etsu Chemical Basic Information, Manufacturing Base and Competitors
Table 57. Shin-Etsu Chemical Major Business

Table 58. Shin-Etsu Chemical Reworkable Underfill Adhesive Product and Services

Table 59. Shin-Etsu Chemical Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. Shin-Etsu Chemical Recent Developments/Updates

Table 61. Weldbond Basic Information, Manufacturing Base and Competitors

Table 62. Weldbond Major Business

Table 63. Weldbond Reworkable Underfill Adhesive Product and Services

Table 64. Weldbond Reworkable Underfill Adhesive Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Weldbond Recent Developments/Updates

Table 66. Global Reworkable Underfill Adhesive Sales Quantity by Manufacturer (2021-2026) & (kg)

Table 67. Global Reworkable Underfill Adhesive Revenue by Manufacturer (2021-2026) & (USD Million)

Table 68. Global Reworkable Underfill Adhesive Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 69. Market Position of Manufacturers in Reworkable Underfill Adhesive, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 70. Head Office and Reworkable Underfill Adhesive Production Site of Key Manufacturer

Table 71. Reworkable Underfill Adhesive Market: Company Product Type Footprint

Table 72. Reworkable Underfill Adhesive Market: Company Product Application Footprint

Table 73. Reworkable Underfill Adhesive New Market Entrants and Barriers to Market Entry

Table 74. Reworkable Underfill Adhesive Mergers, Acquisition, Agreements, and Collaborations

Table 75. Global Reworkable Underfill Adhesive Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 76. Global Reworkable Underfill Adhesive Sales Quantity by Region (2021-2026) & (kg)

Table 77. Global Reworkable Underfill Adhesive Sales Quantity by Region (2027-2032) & (kg)

Table 78. Global Reworkable Underfill Adhesive Consumption Value by Region (2021-2026) & (USD Million)

Table 79. Global Reworkable Underfill Adhesive Consumption Value by Region (2027-2032) & (USD Million)

Table 80. Global Reworkable Underfill Adhesive Average Price by Region (2021-2026)

& (US\$/kg)

Table 81. Global Reworkable Underfill Adhesive Average Price by Region (2027-2032)

& (US\$/kg)

Table 82. Global Reworkable Underfill Adhesive Sales Quantity by Type (2021-2026) & (kg)

Table 83. Global Reworkable Underfill Adhesive Sales Quantity by Type (2027-2032) & (kg)

Table 84. Global Reworkable Underfill Adhesive Consumption Value by Type (2021-2026) & (USD Million)

Table 85. Global Reworkable Underfill Adhesive Consumption Value by Type (2027-2032) & (USD Million)

Table 86. Global Reworkable Underfill Adhesive Average Price by Type (2021-2026) & (US\$/kg)

Table 87. Global Reworkable Underfill Adhesive Average Price by Type (2027-2032) & (US\$/kg)

Table 88. Global Reworkable Underfill Adhesive Sales Quantity by Application (2021-2026) & (kg)

Table 89. Global Reworkable Underfill Adhesive Sales Quantity by Application (2027-2032) & (kg)

Table 90. Global Reworkable Underfill Adhesive Consumption Value by Application (2021-2026) & (USD Million)

Table 91. Global Reworkable Underfill Adhesive Consumption Value by Application (2027-2032) & (USD Million)

Table 92. Global Reworkable Underfill Adhesive Average Price by Application (2021-2026) & (US\$/kg)

Table 93. Global Reworkable Underfill Adhesive Average Price by Application (2027-2032) & (US\$/kg)

Table 94. North America Reworkable Underfill Adhesive Sales Quantity by Type (2021-2026) & (kg)

Table 95. North America Reworkable Underfill Adhesive Sales Quantity by Type (2027-2032) & (kg)

Table 96. North America Reworkable Underfill Adhesive Sales Quantity by Application (2021-2026) & (kg)

Table 97. North America Reworkable Underfill Adhesive Sales Quantity by Application (2027-2032) & (kg)

Table 98. North America Reworkable Underfill Adhesive Sales Quantity by Country (2021-2026) & (kg)

Table 99. North America Reworkable Underfill Adhesive Sales Quantity by Country (2027-2032) & (kg)

Table 100. North America Reworkable Underfill Adhesive Consumption Value by Country (2021-2026) & (USD Million)

Table 101. North America Reworkable Underfill Adhesive Consumption Value by Country (2027-2032) & (USD Million)

Table 102. Europe Reworkable Underfill Adhesive Sales Quantity by Type (2021-2026) & (kg)

Table 103. Europe Reworkable Underfill Adhesive Sales Quantity by Type (2027-2032) & (kg)

Table 104. Europe Reworkable Underfill Adhesive Sales Quantity by Application (2021-2026) & (kg)

Table 105. Europe Reworkable Underfill Adhesive Sales Quantity by Application (2027-2032) & (kg)

Table 106. Europe Reworkable Underfill Adhesive Sales Quantity by Country (2021-2026) & (kg)

Table 107. Europe Reworkable Underfill Adhesive Sales Quantity by Country (2027-2032) & (kg)

Table 108. Europe Reworkable Underfill Adhesive Consumption Value by Country (2021-2026) & (USD Million)

Table 109. Europe Reworkable Underfill Adhesive Consumption Value by Country (2027-2032) & (USD Million)

Table 110. Asia-Pacific Reworkable Underfill Adhesive Sales Quantity by Type (2021-2026) & (kg)

Table 111. Asia-Pacific Reworkable Underfill Adhesive Sales Quantity by Type (2027-2032) & (kg)

Table 112. Asia-Pacific Reworkable Underfill Adhesive Sales Quantity by Application (2021-2026) & (kg)

Table 113. Asia-Pacific Reworkable Underfill Adhesive Sales Quantity by Application (2027-2032) & (kg)

Table 114. Asia-Pacific Reworkable Underfill Adhesive Sales Quantity by Region (2021-2026) & (kg)

Table 115. Asia-Pacific Reworkable Underfill Adhesive Sales Quantity by Region (2027-2032) & (kg)

Table 116. Asia-Pacific Reworkable Underfill Adhesive Consumption Value by Region (2021-2026) & (USD Million)

Table 117. Asia-Pacific Reworkable Underfill Adhesive Consumption Value by Region (2027-2032) & (USD Million)

Table 118. South America Reworkable Underfill Adhesive Sales Quantity by Type (2021-2026) & (kg)

Table 119. South America Reworkable Underfill Adhesive Sales Quantity by Type

(2027-2032) & (kg)

Table 120. South America Reworkable Underfill Adhesive Sales Quantity by Application (2021-2026) & (kg)

Table 121. South America Reworkable Underfill Adhesive Sales Quantity by Application (2027-2032) & (kg)

Table 122. South America Reworkable Underfill Adhesive Sales Quantity by Country (2021-2026) & (kg)

Table 123. South America Reworkable Underfill Adhesive Sales Quantity by Country (2027-2032) & (kg)

Table 124. South America Reworkable Underfill Adhesive Consumption Value by Country (2021-2026) & (USD Million)

Table 125. South America Reworkable Underfill Adhesive Consumption Value by Country (2027-2032) & (USD Million)

Table 126. Middle East & Africa Reworkable Underfill Adhesive Sales Quantity by Type (2021-2026) & (kg)

Table 127. Middle East & Africa Reworkable Underfill Adhesive Sales Quantity by Type (2027-2032) & (kg)

Table 128. Middle East & Africa Reworkable Underfill Adhesive Sales Quantity by Application (2021-2026) & (kg)

Table 129. Middle East & Africa Reworkable Underfill Adhesive Sales Quantity by Application (2027-2032) & (kg)

Table 130. Middle East & Africa Reworkable Underfill Adhesive Sales Quantity by Country (2021-2026) & (kg)

Table 131. Middle East & Africa Reworkable Underfill Adhesive Sales Quantity by Country (2027-2032) & (kg)

Table 132. Middle East & Africa Reworkable Underfill Adhesive Consumption Value by Country (2021-2026) & (USD Million)

Table 133. Middle East & Africa Reworkable Underfill Adhesive Consumption Value by Country (2027-2032) & (USD Million)

Table 134. Reworkable Underfill Adhesive Raw Material

Table 135. Key Manufacturers of Reworkable Underfill Adhesive Raw Materials

Table 136. Reworkable Underfill Adhesive Typical Distributors

Table 137. Reworkable Underfill Adhesive Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Reworkable Underfill Adhesive Picture
- Figure 2. Global Reworkable Underfill Adhesive Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Reworkable Underfill Adhesive Revenue Market Share by Type in 2025
- Figure 4. Capillary Flow Reworkable Underfill Examples
- Figure 5. Corner and Edge Bond Reworkable Underfill Examples
- Figure 6. No-Flow Reworkable Underfill Examples
- Figure 7. Pre-Applied Reworkable Underfill Examples
- Figure 8. Thermally Conductive Reworkable Underfill Examples
- Figure 9. Other Examples
- Figure 10. Global Reworkable Underfill Adhesive Revenue by Cure Mechanism, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global Reworkable Underfill Adhesive Revenue Market Share by Cure Mechanism in 2025
- Figure 12. Thermal Cure Examples
- Figure 13. UV and Heat Dual Cure Examples
- Figure 14. Reflow Cure Examples
- Figure 15. Low-Temperature Cure Examples
- Figure 16. Hybrid Cure Examples
- Figure 17. Other Examples
- Figure 18. Global Reworkable Underfill Adhesive Revenue by Performance Focus, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Reworkable Underfill Adhesive Revenue Market Share by Performance Focus in 2025
- Figure 20. Standard Reliability Examples
- Figure 21. Low CTE and High Tg Examples
- Figure 22. Low Modulus Stress Relief Examples
- Figure 23. Low Ion and High Insulation Examples
- Figure 24. High Thermal Conductivity Examples
- Figure 25. Other Examples
- Figure 26. Global Reworkable Underfill Adhesive Revenue by Rework Mode, (USD Million), 2021 & 2025 & 2032
- Figure 27. Global Reworkable Underfill Adhesive Revenue Market Share by Rework Mode in 2025
- Figure 28. Heat-Softening Rework Examples

- Figure 29. Thermal Decomposition Rework Examples
- Figure 30. Solvent-Assisted Rework Examples
- Figure 31. Local Heating and Mechanical Removal Examples
- Figure 32. Semi-Reworkable Removal Examples
- Figure 33. Other Examples
- Figure 34. Global Reworkable Underfill Adhesive Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 35. Global Reworkable Underfill Adhesive Revenue Market Share by Application in 2025
- Figure 36. BGA and CSP Board-Level Reinforcement Examples
- Figure 37. Flip-Chip and WLCSP Packaging Examples
- Figure 38. PoP and Multi-Chip Module Assembly Examples
- Figure 39. Consumer Electronics Repairable Assembly Examples
- Figure 40. Automotive and Industrial Electronics Examples
- Figure 41. Other Examples
- Figure 42. Global Reworkable Underfill Adhesive Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 43. Global Reworkable Underfill Adhesive Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 44. Global Reworkable Underfill Adhesive Sales Quantity (2021-2032) & (kg)
- Figure 45. Global Reworkable Underfill Adhesive Price (2021-2032) & (US\$/kg)
- Figure 46. Global Reworkable Underfill Adhesive Sales Quantity Market Share by Manufacturer in 2025
- Figure 47. Global Reworkable Underfill Adhesive Revenue Market Share by Manufacturer in 2025
- Figure 48. Producer Shipments of Reworkable Underfill Adhesive by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 49. Top 3 Reworkable Underfill Adhesive Manufacturer (Revenue) Market Share in 2025
- Figure 50. Top 6 Reworkable Underfill Adhesive Manufacturer (Revenue) Market Share in 2025
- Figure 51. Global Reworkable Underfill Adhesive Sales Quantity Market Share by Region (2021-2032)
- Figure 52. Global Reworkable Underfill Adhesive Consumption Value Market Share by Region (2021-2032)
- Figure 53. North America Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)
- Figure 54. Europe Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 55. Asia-Pacific Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 56. South America Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 57. Middle East & Africa Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 58. Global Reworkable Underfill Adhesive Sales Quantity Market Share by Type (2021-2032)

Figure 59. Global Reworkable Underfill Adhesive Consumption Value Market Share by Type (2021-2032)

Figure 60. Global Reworkable Underfill Adhesive Average Price by Type (2021-2032) & (US\$/kg)

Figure 61. Global Reworkable Underfill Adhesive Sales Quantity Market Share by Application (2021-2032)

Figure 62. Global Reworkable Underfill Adhesive Revenue Market Share by Application (2021-2032)

Figure 63. Global Reworkable Underfill Adhesive Average Price by Application (2021-2032) & (US\$/kg)

Figure 64. North America Reworkable Underfill Adhesive Sales Quantity Market Share by Type (2021-2032)

Figure 65. North America Reworkable Underfill Adhesive Sales Quantity Market Share by Application (2021-2032)

Figure 66. North America Reworkable Underfill Adhesive Sales Quantity Market Share by Country (2021-2032)

Figure 67. North America Reworkable Underfill Adhesive Consumption Value Market Share by Country (2021-2032)

Figure 68. United States Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 69. Canada Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 70. Mexico Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 71. Europe Reworkable Underfill Adhesive Sales Quantity Market Share by Type (2021-2032)

Figure 72. Europe Reworkable Underfill Adhesive Sales Quantity Market Share by Application (2021-2032)

Figure 73. Europe Reworkable Underfill Adhesive Sales Quantity Market Share by Country (2021-2032)

Figure 74. Europe Reworkable Underfill Adhesive Consumption Value Market Share by

Country (2021-2032)

Figure 75. Germany Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 76. France Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 77. United Kingdom Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 78. Russia Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 79. Italy Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 80. Asia-Pacific Reworkable Underfill Adhesive Sales Quantity Market Share by Type (2021-2032)

Figure 81. Asia-Pacific Reworkable Underfill Adhesive Sales Quantity Market Share by Application (2021-2032)

Figure 82. Asia-Pacific Reworkable Underfill Adhesive Sales Quantity Market Share by Region (2021-2032)

Figure 83. Asia-Pacific Reworkable Underfill Adhesive Consumption Value Market Share by Region (2021-2032)

Figure 84. China Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 85. Japan Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 86. South Korea Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 87. India Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 88. Southeast Asia Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 89. Australia Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 90. South America Reworkable Underfill Adhesive Sales Quantity Market Share by Type (2021-2032)

Figure 91. South America Reworkable Underfill Adhesive Sales Quantity Market Share by Application (2021-2032)

Figure 92. South America Reworkable Underfill Adhesive Sales Quantity Market Share by Country (2021-2032)

Figure 93. South America Reworkable Underfill Adhesive Consumption Value Market Share by Country (2021-2032)

Figure 94. Brazil Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 95. Argentina Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 96. Middle East & Africa Reworkable Underfill Adhesive Sales Quantity Market Share by Type (2021-2032)

Figure 97. Middle East & Africa Reworkable Underfill Adhesive Sales Quantity Market Share by Application (2021-2032)

Figure 98. Middle East & Africa Reworkable Underfill Adhesive Sales Quantity Market Share by Country (2021-2032)

Figure 99. Middle East & Africa Reworkable Underfill Adhesive Consumption Value Market Share by Country (2021-2032)

Figure 100. Turkey Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 101. Egypt Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 102. Saudi Arabia Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 103. South Africa Reworkable Underfill Adhesive Consumption Value (2021-2032) & (USD Million)

Figure 104. Reworkable Underfill Adhesive Market Drivers

Figure 105. Reworkable Underfill Adhesive Market Restraints

Figure 106. Reworkable Underfill Adhesive Market Trends

Figure 107. Porters Five Forces Analysis

Figure 108. Manufacturing Cost Structure Analysis of Reworkable Underfill Adhesive in 2025

Figure 109. Manufacturing Process Analysis of Reworkable Underfill Adhesive

Figure 110. Reworkable Underfill Adhesive Industrial Chain

Figure 111. Sales Channel: Direct to End-User vs Distributors

Figure 112. Direct Channel Pros & Cons

Figure 113. Indirect Channel Pros & Cons

Figure 114. Methodology

Figure 115. Research Process and Data Source

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