

Global Radiative Cooling Coating Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Radiative Cooling Coating market size is expected to reach \$ 3470 million by 2032, rising at a market growth of 12.8% CAGR during the forecast period (2026-2032).

Radiative cooling coatings are functional surface coatings engineered to passively reduce object or building temperatures by reflecting most incoming solar radiation (high solar reflectance) while simultaneously emitting heat efficiently in the mid-infrared atmospheric window (8–13 μm), allowing thermal energy to radiate directly into outer space without electricity or mechanical systems. The supply chain begins upstream with raw materials such as polymer binders (acrylics, silicones, fluoropolymers), infrared-emissive fillers and pigments (aluminum oxide, titanium dioxide, silicon dioxide, calcium carbonate, polymer microspheres), and additives for durability and weather resistance; moves through midstream formulation and manufacturing, where coating producers design optical spectra, disperse fillers, and produce water-based or solvent-based paints, films, or membranes; and ends downstream with applicators and end users in buildings, cold-chain logistics, vehicles, energy systems, and industrial equipment, where the coatings are applied to roofs, facades, tanks, or devices to reduce cooling loads, improve energy efficiency, and mitigate urban heat effects. In 2025, global radiative cooling coating production is estimated at approximately 270,000 tons, against an installed production capacity of about 345,000 tons per year, with products priced on average at USD 4,500–7,800 per ton, while leading coating manufacturers typically achieve gross margins of around 38%.

This report studies the global Radiative Cooling Coating production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Radiative

Cooling Coating 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 Radiative Cooling Coating that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Radiative Cooling Coating total production and demand, 2021-2032, (Tons)

Global Radiative Cooling Coating total production value, 2021-2032, (USD Million)

Global Radiative Cooling Coating production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Radiative Cooling Coating consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Radiative Cooling Coating domestic production, consumption, key domestic manufacturers and share

Global Radiative Cooling Coating production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Radiative Cooling Coating production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Radiative Cooling Coating production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Radiative Cooling Coating 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 3M Company (USA), PPG Industries (USA), Sherwin-Williams (USA), AkzoNobel (Netherlands), Henry Company (USA), EPOX-Z Corporation (USA), Hy-Tech Coatings (USA), ThermaCote (USA), Rainguard (USA), StarShield (USA), 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 Radiative Cooling Coating market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Radiative Cooling Coating Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Radiative Cooling Coating Market, Segmentation by Type:

Acrylic-based Coating

Silicone-based Coating

Fluoropolymer-based Coating

Hybrid Polymer Coating

Global Radiative Cooling Coating Market, Segmentation by Durability:

5–10 Years

>10 Years

Global Radiative Cooling Coating Market, Segmentation by Application:

Residential Building

Commercial Building

Industrial Facility

Infrastructure

Companies Profiled:

3M Company (USA)

PPG Industries (USA)

Sherwin-Williams (USA)

AkzoNobel (Netherlands)

Henry Company (USA)

EPOX-Z Corporation (USA)

Hy-Tech Coatings (USA)

ThermaCote (USA)

Rainguard (USA)

StarShield (USA)

GAF Materials (USA)

Sika (Switzerland)

Saint-Gobain (France)

Nippon Paint (Japan)

Kansai Paint (Japan)

RPM International (USA)

Key Questions Answered:

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

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