

# Global Passive Daytime Radiative Cooling (PDRC) Materials 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 Passive Daytime Radiative Cooling (PDRC) Materials market size was valued at US\$ 22.16 million in 2025 and is forecast to a readjusted size of US\$ 100 million by 2032 with a CAGR of 21.6% during review period.

Passive daytime radiative cooling (PDRC) materials are engineered surfaces—often films, paints, or coatings—that can lower their temperature under direct sunlight without consuming energy by balancing two optical properties: they reflect most incoming solar radiation (so they absorb very little heat from the sun) and they strongly emit thermal infrared radiation in the atmospheric “transparent window” (roughly 8–13  $\mu\text{m}$ ), allowing heat to radiate from the surface to the cold sky/outer space. When designed well and used on sky-facing surfaces, this combination can keep the material cooler than conventional surfaces and, under favorable weather (clear skies, low humidity, low wind), can even cool to below ambient air temperature. The average price of coating products is approximately US\$6.29 per square meter, while the average price of film products is US\$30 per square meter.

Passive daytime radiative cooling paint sits between specialty materials and the mainstream architectural coatings supply chain. Upstream, the key inputs are binder resins, high solar reflectance pigments and fillers, infrared emissive additives, dispersants and rheology modifiers, UV stabilizers, defoamers, water or solvent carriers, plus packaging and application equipment. The critical manufacturing steps are high quality dispersion and particle size control, formulation for film formation and adhesion, and tight quality control on optical performance, durability, and consistency from batch to batch. Downstream, the paint moves through coating manufacturers, distributors,

roofing and facade system integrators, and contractor networks, then into end uses such as commercial and industrial roofs, building envelopes, outdoor enclosures, tanks, containers, and some municipal surfaces. Installation depends heavily on surface prep, primers, application thickness control, and maintenance practices like periodic cleaning to preserve reflectance.

This report is a detailed and comprehensive analysis for global Passive Daytime Radiative Cooling (PDRC) Materials 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 Passive Daytime Radiative Cooling (PDRC) Materials market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Passive Daytime Radiative Cooling (PDRC) Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Passive Daytime Radiative Cooling (PDRC) Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Passive Daytime Radiative Cooling (PDRC) Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 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 Passive Daytime Radiative Cooling (PDRC) Materials
- 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 Passive Daytime Radiative Cooling (PDRC) Materials 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 SPACE COOL, Azure Era, i2Cool, MG Energy, Radi-Cool, CSCEC, Pirta, Cryox, 3M, AkzoNobel, etc.

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

## **Market Segmentation**

Passive Daytime Radiative Cooling (PDRC) Materials 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**

Paints

Films

Others

### **Market segment by Reflectivity**

Reflectivity Greater Than 96%

Reflectivity Less Than 96%

### **Market segment by Application**

Construction Industry

Warehousing

Transportation Equipment

Energy and Power Facilities

Others

#### Major players covered

SPACE COOL

Azure Era

i2Cool

MG Energy

Radi-Cool

CSCEC

Pirta

Cryox

3M

AkzoNobel

Aorun Advanced Materials

SKSHU Paint

Nippon Paint

Beixin Jiabaoli Coatings

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 Passive Daytime Radiative Cooling (PDRC) Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Passive Daytime Radiative Cooling (PDRC) Materials, with price, sales quantity, revenue, and global market share of Passive Daytime Radiative Cooling (PDRC) Materials from 2021 to 2026.

Chapter 3, the Passive Daytime Radiative Cooling (PDRC) Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Passive Daytime Radiative Cooling (PDRC) Materials 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 Passive Daytime Radiative Cooling (PDRC) Materials 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 Passive Daytime Radiative Cooling (PDRC) Materials.

Chapter 14 and 15, to describe Passive Daytime Radiative Cooling (PDRC) Materials sales channel, distributors, customers, research findings and conclusion.

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