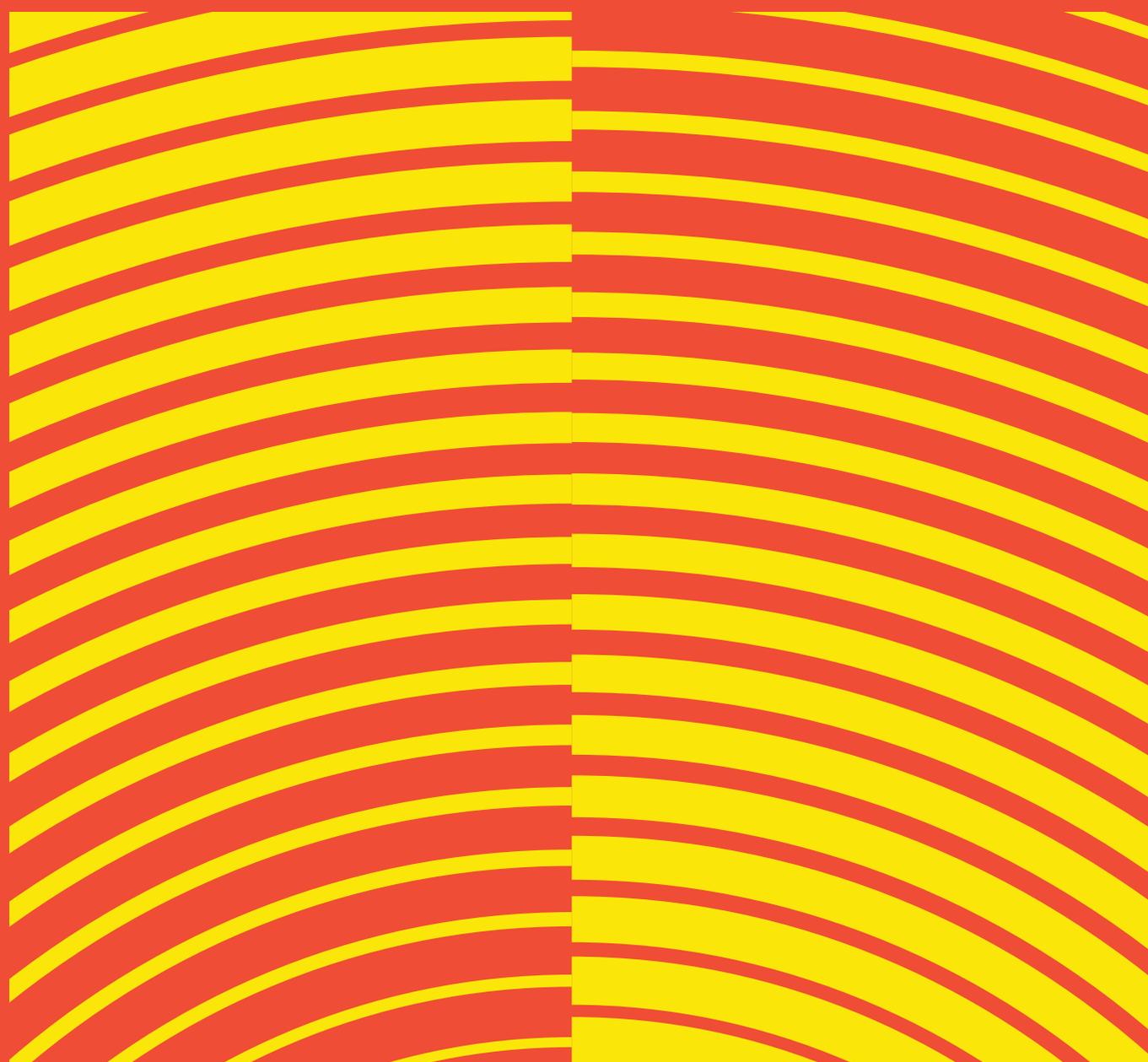




**RESINS**

# Resins that build a better world





# The future will be brighter with Radiant color

Radiant invented the original fluorescent pigment over 60 years ago and has changed the way the world sees color forever. Today, with the same entrepreneurial mindset and spirit of innovation, we are committed to bring change to the world of resins for coatings and construction.

As part of the RPM family of brands, we're proud to set the standard in, durability and performance that's simply unrivalled. We exist to instil trust and create value through our commitment to unmatched reliability and service.

Underpinning our work is a deep commitment to sustainability and compliance, ensuring every product meets the highest environmental and regulatory standards, while always treading as lightly on the planet as possible.

Through our broad portfolio of technologies – engineered to excel in a variety of applications, as well as custom resins tailored for your specific needs – we're the catalysts for a better, brighter, more illuminated world.



# YOUR RESINS PARTNER



# Thinking global, acting local

By opening our European Resin Centre of Excellence in 2024, we brought the wealth of resin expertise that we possess as a business under one roof.

From this central hub, we use the latest technology to create the next generation of resins for you.

With investments of over 25 million euro into 5 dedicated reactors and new R&D lab, we have increased capacity 15 fold, ensuring that supply meets demand, and that we can support all our customers quickly when they need it.

Supporting our manufacturing operations are R&D centers around the world. These facilities offer polymer development, formulation development and application testing. With quick turnaround yet rigorously thorough processes, we guarantee that our products perform when and how you need them to.





# Building blocks with a conscience

A resin for every application.

From the use of bio content to create solutions with a low carbon footprint, to products with reduced SVHC's our commitment to responsible manufacturing is evident in everything we do.

We aim to produce and invent products that pass quality and sustainability certification, you can see further evidence of our environmental credentials in the most recent ESG report of our parent company, RPM.

Our range of specialized resins are compatible with a wide variety of uses, from adhesives, sealants and waterproofing to flooring, coatings and elastomers.

Commitment  
to responsible  
manufacturing



# RADIACRYL®

Based on urethane methacrylate, RADIACRYL® is a flexible yet durable resin created to deliver stunning results when used in MMA or other acrylate based flooring, waterproofing, adhesives.

Designed to prevent cracking and reduce shrinkage, RADIACRYL® also performs exceptionally in fluctuating temperatures.

## Features and benefits:

- High UV resistance
- High elasticity
- High tensile strength
- Reduced shrinkage

## Product specification:

### RADIACRYL® 5001

NCO-value: <0,1% NCO

Visc Pa.s: 16-21 Pa.s

Color: Clear

Functionality: 2





# RADIAMINE®

Our first range of hardeners developed to cover all layers in epoxy flooring systems, with a combination of aromatic, aliphatic and flexible adducts.

Through the connections creating value initiative, Arnette polymers our sister company within RPM, can be used to quickly tailor hardeners to fit your specific requirements, and bring together your fragmented raw material portfolios.

The properties of the RADIAMINE® range makes them ideal for applications such as primers, midcoats, topcoats, sealants, grouts, mortars, and tank linings.

### Features and benefits:

- Completely customizable to your requirements
- Low odour
- Good reactivity
- Chemical resistance
- High-gloss

### Product specification:

#### **RADIAMINE® 2002**

NH-value: 250-350 mg KOH/g

H eqw: 95 g/eq

Visc Pa.s: 75-115 mPa.s

Color: Transparent liquid

#### **RADIAMINE® 2003**

NH-value: 300-400 mg KOH/g

H eqw: 95 g/eq

Visc Pa.s: 190-270 mPa.s

Color: < 2 Gardner

#### **RADIAMINE® 2004**

NH-value: 250-350 mg KOH/g

H eqw: 115 g/eq

Visc Pa.s: 350-450 mPa.s

Color: < 2 Gardner



# RADIASIL®

Hybrid, silane functional polymers offer excellent overcoat properties are incredibly durable and fast curing. RADIASIL® also has strong adhesion to a variety of substrates, including concrete, masonry, wood, metal and most plastics.

There are two RADIASIL® products in the range. RADIASIL® 2001 combines elasticity and strength to excel in neutral moisture cure sealants and adhesives. RADIASIL® 2002 is tuned for structural adhesives applications and offers higher mechanical strength with low cold flow.

## Features and benefits:

- Low odor cure
- Fast skin formation (<30 min)
- 500% elongation
- UV and weather resistance
- Solvent, silicone and isocyanate-free
- DINP-free

## Product specification:

### RADIASIL® 2001

Visc Pa.s: 60-95 Pa.s

Color: Clear

NCO-value: <0,1% NCO

### RADIASIL® 2002

Visc Pa.s: 40-75 Pa.s

Color: Clear

NCO-value: <0,1% NCO



Incredibly durable  
Fast curing  
Strong adhesion  
Elasticity  
Strength





60-80%  
bio-content from  
a renewable  
feedstock



# RADIAPOL®

Our RADIAPOL® resins best showcase our commitment to responsible, sustainable production. As a castor oil-based polyol, RADIAPOL® contains 60-80% bio-content from a renewable feedstock, which ensures carbon is captured in a long lasting application.

As it's free of VOC formulators can boast with an EC1 Plus label for quality and sustainability certification.

The characteristics and superior quality and aesthetics of RADIAPOL® make it the perfect solution for a variety of flooring surfaces, including parking garages, industrial settings, commercial and residential buildings, sports flooring and waterproofing surfaces.

For adhesive applications, RADIAPOL® provides excellent elasticity and compatibility with tackifiers. For casting/potting, its Di-electric properties mean effective heat conductivity and elasticity.

When used in pipe coating/anti-corrosion, it offers high hydrophobic layer build and the potential for field application, while in 2K wood oil uses, its high-quality appearance and durability shine through.



## Features and benefits:

- Radiapol polyols consist of compatible and complementary properties
- Exceptional abrasion, scratch and chemical resistance
- UV- and humidity-resistant
- Fast-setting and fast-curing
- VOC-free

## Product specification:

### RADIAPOL® 1001

OH-value: 4.7%

Visc Pa.s: 3,50 Pa.s

Acid value: <2mg KOH/g

Color: <5 iodine

H2O: < 0,2%

### RADIAPOL® 1002

OH-value: 7.1%

Visc Pa.s: 2,95 Pa.s

Acid value: <2mg KOH/g

Color: <5 iodine

H2O: < 0,2%



# Flooring systems

Radiant resins possess the qualities to excel when used in parking, industrial, residential, sports flooring waterproofing and commercial applications.

The table below is based on FeRFA Resin Flooring Classification System\*

	Frequency of use/trafficking				
	Very rarely (per week)	Rarely (per day)	Occasionally (per shift)	Frequently (per hour)	Very frequently (per minute)
Low to moderate abrasion; foot traffic, rubber-tyre traffic	Type 1	Type 1	Type 2	Type 3	Type 4, 5
Moderate to high abrasion; steel or hard plastic wheeled traffic	Type 1	Type 2	Type 3	Type 4, 5	Type 6
High abrasion; steel or hard plastic wheeled traffic and some impact, moderate loadings	Type 3	Type 3	Type 4, 5	Type 6	Type 7
Very high abrasion from steel or hard plastics wheeled traffic and/or scoring by dragged metal objects, some impact, heavy loadings	Type 3	Type 4, 5	Type 6	Type 7	Type 8
Severe abrasion from steel or hard plastics wheeled traffic and/or scoring by dragged metal objects, some impact, heavy loadings, aggressive environment	Type 4, 5	Type 6	Type 7	Type 8	Type 8

\*Source: <https://ferfa.org.uk/wp-content/uploads/2024/11/The-FeRFA-Standard-Classification-Types-October-2024.pdf>

## Flooring application areas

### Waterproofing:

- Appearance, aesthetics
- UV, humidity resistance
- Curing under adverse conditions

### Commercial:

- Appearance, aesthetics
- Fast return to service
- Abrasion, heel mark

### Parking:

- Abrasion
- Scratch
- Brake-fluid
- Fuel
- Battery acid
- Hot tyre

### Industrial:

- Abrasion
- Scratching
- Solvents
- Cleaning
- High loads temperature
- Food-contact/ anti-static

### Residential:

- Appearance, aesthetics
- Scratch
- Heel mark

### Sports flooring:

- Elasticity, heel mark
- Scratch resistance

Table 1 – Types of synthetic resin flooring

Type	Name	Description	Duty	Typical thickness
1	Floor seal	Applied in two or more coats. Generally solvent or water-borne.	LD	up to 150µm
2	Floor coating	Applied in two or more coats. Generally solvent-free.	LD/MD	150µm to 300µm
3	High build Floor coating	Applied in two or more coats. Generally solvent-free.	MD	300µm to 1000µm
4	Multi-layer flooring	Aggregate dressed systems based on multiple layers of floor coatings or flow-applied floorings, often described as 'sandwich' systems.	MD/HD	> 2mm
5	Flow-applied flooring	Often referred to as 'self-smoothing' or 'self-levelling' flooring and having a smooth surface.	MD/HD	2mm to 3mm
6	Resin screed flooring	Trowel-finished, heavily filled systems, generally incorporating a surface coating to minimize porosity and provide a wearing surface.	MD/HD	> 4mm
7	Heavy duty flowable flooring	Having a smooth surface.	HD/VHD	4mm to 6mm
8	Heavy duty Resin flooring	Trowel-finished, aggregate filled systems effectively impervious throughout their thickness.	VHD	> 6mm



Radiant



Can you see the light?

Visit [radiantcolor.com](http://radiantcolor.com) for more information.

Europark 1046, 3530 Houthalen, Belgium