

ACRYDUR™ SYSTEMS METHYL METHACRYLATE (MMA) HIGH PERFORMANCE FLOOR SYSTEMS



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Acrydur[®] flooring systems are specifically designed for projects where very fast installation is essential with extreme durability and performance. Using Methyl Methacrylate (MMA) chemistry Acrydur is hardwearing, flexible and resistant to a wide range of chemicals, benefitting from the unique characteristic of the acrylic binder which is the backbone of this product portfolio.

Surface finishes range from being smooth to heavy textured for slip resistance and systems can be decorative with multi-coloured quartz aggregate or upvc flake combinations for dynamic modern designs. Acrydur is laid quickly in large seamless areas without any risk of cracking or spalling to produce tough UV stable finishes. Multi-coat systems are installed in a single day or overnight and where required special designs can be incorporated according to individual company requirements. Bespoke effects including line and demarcation definition or built-in names and logos can be created for state of the art modern flooring delivering the toughest seamless hygienic finishes.

The Acrydur range of flooring systems includes solutions for areas where slips and trips can be a constant hazard, even in areas which are regularly wet. Because of the incredible fast curing schedule possible with Acrydur systems can be installed in low temperature situations such as cold stores and external areas, where the temperature could be -10°C, without the curing being compromised. Acrydur can be applied in thin layers - as well as thick - corresponding to the wear and traffic requirements on site. Fast installation creates cost saving solutions for end-users with minimal downtime and allows architects and engineers to solve flooring problems for a wide range of industry sectors including food processing, healthcare, pharmaceutical, energy, electronics, printing and transportation.

BENEFITS

- Very fast cure
- High chemical resistance
- Good colour stability
- Surface protection
- Slip resistant options
- Decorative options
- Matt finish
- Extremely hard wearing
- Excellent intercoat adhesion

SCOPE OF USE

- Food handling areas
- Supermarkets and retail areas
- Public concourse areas
- Healthcare facilities
- Pharmaceutical areas
- Vehicle decks and car parks
- Airports
- Train stations

DECORATIVE VARIANTS

- Coloured smooth finish
- Coloured textured slip-resistant finish
- Smooth multi-coloured flake finish
- Slightly textured multi-coloured flake finish
- Textured multi-coloured quartz finish



ACRYDUR DECO FLAKE

METHYL METHACRYLATE (MMA) SELF-LEVELLING

FLAKE FLOOR SCREED SYSTEM

Acrydur Deco Flake is a 3 mm thick very fast cure MMA resin flooring system for heavy duty industrial situations. The finish typically features coloured flakes incorporated in the system build-up to create a decorative durable hygienic finish.



	Cure to service (hrs)		
Traffic	-30°C	20°C	30°C
Light	1-2	1-2	1-2
Designed	3-4	3-4	3-4

O Substrate:

- 1 **Primer:** Acrydur PR01 or PR02
- Basecoat: Acrydur BC02 slurry using 0.2-0.3 mm silica sand
- 3 Broadcast: Coloured flake scatter
- 4 Topcoat: Acrydur TCO2 Clear
- 5 **2nd Topcoat:** Acrydur TCO2 Clear

BENEFITS

- Very fast cure
- Decorative finish
- High chemical resistance
- Smooth or textured surface options
- Resistance to hot water
- Extremely hard wearing
- Non dusting

SCOPE OF USE

- Food manufacture and processing
- Terminals and baggage halls
- Supermarkets and retail areas
- Pharmaceutical processing
- Domestic areas
- Public buildings

Compressive strength	DIN 1164	45 N/mm ²
Tensile strength in bending	DIN 1164	25 N/mm ²
UV stable	Yes	
FerFa class	Class 4–5	
System thickness	3 mm	
Bond strength	>1.5 Mpa (substrate failur	e)
Water permeability Nil	Karsten test (impermeable)	

ACRYDUR DECO QUARTZ BC

METHYL METHACRYLATE (MMA) SELF-LEVELLING QUARTZ FLOOR SYSTEM

Acrydur Deco Quartz BC is a 6 mm thick very fast cure MMA resin flooring system for heavy duty industrial situations. The finish typically features a quartz aggregate incorporated in the system build-up to create a decorative durable hygienic finish.



T	Cure to service (hrs)		
Traffic	-30°C	20°C	30°C
Light	1-2	1-2	1-2
Designed	3-4	3-4	3-4

O Substrate:

- 1 **Primer:** Acrydur PR01 or PR02
- Basecoat: Acrydur BC01 slurry using 0.2-0.3 mm silica sand
- 3 Broadcast: Coloured quartz scatter
- (a) **Topcoat:** Acrydur TC01 Clear
- 5 **2nd Topcoat:** Acrydur TC01 Clear

BENEFITS

- Very fast cure
- Decorative finish
- High chemical resistance
- Slip resistant texture
- Resistance to hot water
- Extremely hard wearing
- Non dusting

SCOPE OF USE

- Food manufacture and processing
- Baggage handling halls
- Retail areas
- Pharmaceutical and chemical plant processing
- Heavy duty plant and traffic areas

Compressive strength	DIN 1164	38 N/mm ²
Tensile strength in bending	DIN 1164	29 N/mm ²
UV stable	Yes	
FerFa class	Class 5–6	
System thickness	6 mm	
Bond strength	>1.5 Mpa (substrate failur	e)
Water permeability Nil	Karsten test (impermeable)	
Slip resistance (for textured quartz finish)	BS 7976- 2:2002+A1:2013	>36 wet/dry

ACRYDUR DECO QUARTZ CC

METHYL METHACRYLATE (MMA) COLD CURE SELF-LEVELLING FLOOR SYSTEM

Acrydur Deco Quartz CC is a 5 mm thick low temperature very fast cure MMA resin flooring system for external and cold store type heavy duty industrial situations. The finish typically features a quartz aggregate incorporated in the system build-up to create a decorative durable hygienic finish.



T	Cure to service (hrs)		
Traffic	-30°C	20°C	30°C
Light	1-2	1-2	1-2
Designed	3-4	3-4	3-4

O Substrate:

- 1 **Primer:** Acrydur PR01 or PR02
- Basecoat: Acrydur MEO2 slurry using 0.2-0.3 mm silica sand
- 3 Broadcast: Coloured quartz scatter
- (4) **Topcoat:** Acrydur BC02 Clear
- 5 **2nd Topcoat:** Acrydur BC02 Clear

BENEFITS

- Low temperature fast cure
- Decorative finish
- High chemical resistance
- Slip resistant texture
- Resistance to hot water
- Extremely hard wearing
- Non dusting

SCOPE OF USE

- Food manufacture and processing
- Cold stores
- External areas
- Pharmaceutical and chemical plant processing
- External vehicle areas and walkways
- Heavy duty plant and traffic areas

Compressive strength	DIN 1164	25 N/mm ²
Tensile strength in bending	DIN 1164	15 N/mm ²
UV stable	Yes	
FerFa class	Class 5–6	
System thickness	5 mm	
Bond strength	>1.5 Mpa (substrate failur	e)
Water permeability Nil	Karsten test (impermeable))
Slip resistance (for textured quartz finish)	BS 7976- 2:2002+A1:2013	>36 dry

ACRYDUR DECO QUARTZ KFS

METHYL METHACRYLATE (MMA) KITCHEN QUARTZ FLOOR SCREED SYSTEM

Acrydur Deco Quartz KFS is a 5 mm thick very fast cure MMA resin flooring system for commercial and industrial kitchens. The finish typically features a quartz aggregate incorporated in the system build-up to create a tough decorative durable hygienic finish.



-	Cure to service (hrs)		
Traffic	-30°C	20°C	30°C
Light	1-2	1-2	1-2
Designed	3-4	3-4	3-4



1 **Primer:** Acrydur PR01 or PR02

2 Membrane: Acrydur ME01

3 Basecoat: Acrydur BC01 slurry using Filler SL

- Broadcast:
 Coloured quartz scatter
- 5 **Topcoat:** Acrydur TC01 Clear
- 6 **2nd Topcoat:** Acrydur TC01 Clear

BENEFITS

- Very fast cure
- Decorative finish
- High chemical resistance
- Slip resistant texture
- Resistance to hot water
- Extremely hard wearing
- Non dusting

SCOPE OF USE

- Commercial kitchens requiring a membrane
- Food manufacture and processing
- Beverage wet production areas
- Retail areas

Compressive strength	DIN 1164	38 N/mm ²
Tensile strength in bending	DIN 1164	29 N/mm ²
UV stable	Yes	
FerFa class	Class 5-6	
System thickness	5 mm	
Bond strength	>1.5 Mpa (substrate failur	e)
Water permeability Nil	Karsten test (impermeable))
Slip resistance (for textured quartz finish)	BS 7976- 2:2002+A1:2013	>36 dry

ACRYDUR DECO QUARTZ TG

METHYL METHACRYLATE (MMA) QUARTZ FLOOR SCREED SYSTEM

Acrydur Deco Quartz TG is a 4 mm thick very fast cure MMA flooring decorative resin screed system for industrial and commercial areas. The finish typically features a multi-coloured quartz aggregate screed with a clear seal coat to create a tough decorative durable hygienic finish.



- 1 Primer: Acrydur PR01 or PR02
- 3 **Topcoat:** Acrydur TC01 Clear

	Cure to service (hrs)		
Traffic	-30°C	20°C	30°C
Light	1-2	1-2	1-2
Designed	3-4	3-4	3-4

BENEFITS

- Very fast cure
- Decorative finish
- High chemical resistance
- Slip resistant texture
- Resistance to hot water
- Extremely hard wearing
- Non dusting

SCOPE OF USE

- Commercial kitchens
- Food manufacture and processing
- Beverage wet production areas
- Retail areas

Compressive strength	DIN 1164	38 N/mm ²
Tensile strength in bending	DIN 1164	23 N/mm ²
UV stable	Yes	
FerFa class	Class 5–6	
System thickness	4 mm	
Bond strength	>1.5 Mpa (substrate failur	e)
Water permeability Nil	Karsten test (impermeable)	
Slip resistance (for textured quartz finish)	BS 7976- 2:2002+A1:2013	>36 dry

ACRYDUR TOPFLOOR SL

METHYL METHACRYLATE (MMA) SELF LEVELLING FLOOR SYSTEM

Acrydur Topfloor SL is a 3 mm thick very fast cure MMA resin flooring system for heavy duty industrial situations. The finish typically features a self-levelling base coat with a coloured top coat for a durable hygienic finish suitable for all areas of industry.



Traffic	Cure to service (hrs)			
	-30°C	20°C	30°C	
Light	1-2	1-2	1-2	
Designed	3-4	3-4	3-4	

1 Primer: Acrydur PR01 or PR02

3 Topcoat: Acrydur TCO2

BENEFITS

- Very fast cure
- Non-yellowing coloured finish
- High chemical resistance
- Smooth finish
- Resistance to hot water
- Extremely hard wearing
- Non dusting

SCOPE OF USE

- · Food manufacture and processing
- Industrial production and handling areas
- Aisleways
- Pharmaceutical processing
- Workshops
- Public buildings

Compressive strength	DIN 1164	45 N/mm ²
Tensile strength in bending	DIN 1164	25 N/mm ²
UV stable	Yes	
FerFa class	Class 4-5	
System thickness	3 mm	
Bond strength	>1.5 Mpa (substrate failure)	
Water permeability Nil	Karsten test (impermeable)	

ACRYDUR TOPFLOOR ID

METHYL METHACRYLATE (MMA) INTERMEDIATE

DECK CAR PARK FLOOR SYSTEM

Acrydur Topfloor ID is a 5 mm thick very fast cure MMA resin flooring system for intermediate deck car parks and similar heavy duty vehicle situations. The finish typically features a base coat with a silica quartz aggregate scatter and coloured topcoat to create a tough finish suitable for cars and other vehicles. Acrydur Topfloor ID reduces noise from traffic movement and delivers an attractive coloured finish for new projects or refurbishments.

3	
2	

O Substrate:

1 **Primer:** Acrydur PR01 or PR02

Basecoat: Acrydur ME04 slurry using 0.2-0.3 mm silica sand

- Broadcast: Silica quartz scatter
- Topcoat: Acrydur TC04 or TC05 Colour

T	Cure to service (hrs)		
Traffic	-30°C	20°C	30°C
Light	1-2	1-2	1-2
Designed	3-4	3-4	3-4

BENEFITS

- Very fast cure reducing downtime to a minimum
- Coloured finish
- High chemical resistance
- Reduced tyre squeal and noise
- Slip and skid resistance
- Extremely hard wearing
- Non dusting

SCOPE OF USE

- Intermediate deck car parks
- Baggage handling areas with vehicles
- External vehicle areas and walkways
- Heavy duty plant and traffic areas
- Balconies

Compressive strength	DIN 1164 25 N/mm ²	
Tensile strength in bending	DIN 1164	15 N/mm ²
UV stable	Yes	
FerFa class	Class 5–6	
System thickness	5 mm	
Bond strength	>1.5 Mpa (substrate failure)	
Water permeability Nil	Karsten test (impermeable)	
Slip resistance (for textured quartz finish)	BS 7976- 2:2002+A1:2013	>36 wet/dry

ACRYDUR TOPFLOOR TD

METHYL METHACRYLATE (MMA) TOP DECK CAR PARK FLOOR SYSTEM

Acrydur Topfloor TD is a 6 mm thick very fast cure MMA resin flooring system for top deck car parks and similar heavy duty vehicle situations. The finish typically features a flexible membrane with crack bridging properties, and then a base coat with a quartz aggregate scatter and coloured topcoat to create a tough finish suitable for cars and other vehicles. Acrydur Topfloor TD reduces noise from traffic movement and delivers an attractive coloured finish for new projects or refurbishments.

Cure to service (hrs)

20°C

1-2

3-4

30°C

1-2

3-4



O Substrate:

- 1 **Primer:** Acrydur PR01 or PR02
- Membrane: Acrydur ME01 with crack bridging fabric if required
- 3 **Basecoat:** Acrydur ME04 slurry using 0.2-0.3 mm silica sand
- In Broadcast: Silica quartz sand
- 5 **Topcoat:** Acrydur TCO4 or TCO5 Colour

TYPICAL PHYSICAL PROPERTIES

Compressive strength	DIN 1164	25 N/mm ²
Tensile strength in bending	DIN 1164	15 N/mm ²
UV stable	Yes	
FerFa class	Class 5–6	
System thickness	6 mm	
Bond strength	>1.5 Mpa (substrate failure)	
Water permeability Nil	Karsten test (impermeable)	
Slip resistance (for textured quartz finish)	BS 7976- 2:2002+A1:2013	>36 wet/dry

-30°C

1-2

3-4

BENEFITS

Traffic

Light

Designed

- Very fast cure reducing downtime to a minimum
- Flexibilised crack bridging system for dynamic movement suitability
- Coloured finish
- High chemical resistance
- Reduced tyre squeal and noise
- Slip and skid resistance
- Extremely hard wearing
- Non dusting

SCOPE OF USE

- Top deck car parks
- Baggage handling areas with vehicles
- External vehicle areas and walkways
- Heavy duty plant and traffic areas

ACRYDUR TOPFLOOR RA

METHYL METHACRYLATE (MMA) CAR PARK RAMP FLOOR SYSTEM

Acrydur Topfloor RA is a 6 mm thick very fast cure MMA resin flooring system for car park ramps and similar heavy duty vehicle situations. The finish typically features a scratch coat and then a base coat with a quartz aggregate scatter and coloured topcoat to create a tough finish suitable for cars and other vehicles. Acrydur Topfloor RA creates traction and reduces skidding and noise from traffic movement.

Cure to service (hrs)

20°C

1-2

3-4

30°C

1-2

3-4



O Substrate:

1 **Primer:** Acrydur PR01 or PR02

- Scratchcoat: Acrydur MEO4 with 0.2-0.3 mm silica sand
- 3 **Basecoat:** Acrydur ME04 slurry using 0.2-0.3 mm silica sand
- Broadcast: Coloured quartz scatter
- 5 **Topcoat:** Acrydur TC04 Colour

BENEFITS

Traffic

Light

Designed

- Very fast cure
- Coloured finish
- High chemical resistance
- Reduced tyre squeal and noise

-30°C

1-2

3-4

- Slip and skid resistance
- Extremely hard wearing
- Non dusting

SCOPE OF USE

- Car park ramps
- Baggage handling area ramps
- External vehicle ramps
- Heavy duty plant and traffic areas

Compressive strength	DIN 1164 25 N/mm ²	
Tensile strength in bending	DIN 1164	15 N/mm ²
UV stable	Yes	
FerFa class	Class 5-6	
System thickness	6 mm	
Bond strength	>1.5 Mpa (substrate failure)	
Water permeability Nil	Karsten test (impermeable)	
Slip resistance (for textured quartz finish)	BS 7976- 2:2002+A1:2013	>36 wet/dry



Product	Pack size (kg)	Description
Primers		
ACRYDUR PR01	25 or 190	General purpose low viscosity primer absorbent surfaces for Acrydur floor systems
ACRYDUR PR02	25 or 190	Medium viscosity flexible primer for absorbent and non-absorbent surfaces for Acrydur floor systems
ACRYDUR PR03	25 or 190	Medium viscosity primer for damp surfaces for Acrydur floor systems
Membranes		
ACRYDUR ME01	25 or 190	Flexible resin membrane for waterproofing Acrydur floor systems
ACRYDUR ME02	25 or 190	Flexible crack bridging resin membrane for waterproofing Acrydur floor systems
ACRYDUR ME03	20	Highly flexible resin sealing membrane for Acrydur floor systems
ACRYDUR ME04	25 or 190	Low temperature curing flexible resin membrane for self-levelling Acrydur floor systems
ACRYDUR ME05	25 or 190	Highly flexible resin for membrane and waterproofing for Acrydur floor systems
Body coats		
ACRYDUR BC01	25 or 190	Slightly elasticized resin for slip-resistant Acrydur floor systems
ACRYDUR BC02	25 or 190	Slightly elasticized resin for self-levelling Acrydur floor systems
ACRYDUR BC03	25 or 190	Resin for exceptional self-levelling properties for Acrydur floor systems
Top coats		
ACRYDUR TC01	25 or 190	Low viscosity top coat resin for Acrydur floor systems in dry areas
ACRYDUR TC02	25 or 190	Medium viscosity top coat resin for Acrydur floor systems in dry areas
ACRYDUR TC03	25 or 190	Medium viscosity elasticized top coat resin for Acrydur floor systems in wet areas
ACRYDUR TC04	20	Slightly elasticized seal coat resin for Acrydur floor systems
ACRYDUR TC05	25	Slightly elasticized pigmented seal coat resin for Acrydur floor systems
Coving		
ACRYDUR CV01	25	Render for forming coving for Acrydur floor systems
Note: All the above	products are mixe	ed with Acrydur Peroxide hardening powder. See individul product dats sheets for mixing ratio's
Repair mortars		
ACRYDUR RM	16.9	Substrate repair mortar for thicknesses from 4 to 20mm for Acrydur floor systems



The Acrydur range of MMA based products achieve a very hard surface cure through the use of a hardening powder (Dibenzyl Peroxide). This initiates a chemical chain reaction leading to the unique tough floor finish possible with this type of polymer chemistry. The ratio of Acrydur Peroxide hardening powder mixed with Acrydur liquid resins varies according to temperature. Guidance for this is provided on individual Product Data Sheets in the form of percentages by weight. These proportions need to be calculated accurately to achieve the optimum performance, and the Acrydur Peroxide hardening powder should be added immediately before installation commences. In the case of pourable mixes, the hardening powder should be the last component added, while for mortars or very thixotropic resins the full amount of filler or thixotropic agent should be stirred in first.

Acrydur resins should be initially agitated prior to mixing to ensure an even consistency. Then the hardening powder must always be stirred in and allowed to dissolve in the corresponding mixture or the pure resin. It is essential the recommended percentages of hardening powder are not exceeded and that the advised mixing ratio's are followed accurately. The stirring time will depend on the type and the condition of the mixing equipment being used and on the temperature of the material.

During application of Acrydur in interior situations adequate air movement must be provided as good ventilation, both inwards and outwards, is a factor on achieving optimum curing of the flooring finishes. Sufficient time should also be organised after the application work for ventilation and air movement to ensure residual vapours are allowed to dissipate before facilities are put back to use and products are returned. This is because when MMA material is used a certain quantity evaporates which has a strong odour. This should be managed accordingly by the installer with regard to the presence of people and the usage of a facility.

It is recommended to use respiratory equipment when mixing, transporting and applying Acrydur. The filter devices used should ideally be fitted with a hood or helmet and a blower(Airstream helmets). Details for safe handling and application is advised on the Safety Data Sheets available.



COLOUR RANGES

ACRYDUR

Acrydur provides fast cure solutions with extreme durability and robustness, for diverse applications. Guidance on RAL shades is provided as an indication only and these colours are not exact matches. The colours stated are for Acrydur pigmented products such as Acrydur TC05. Please contact Sherwin-Williams about pigment packs for other Acrydur products.





Buff



RAL 7037 Mid Grey



Red

RAL 7012 Dark Grey



RAL 5010 Blue

DECO QUARTZ



Breccia





RAL 7042 Light Grey

Yellow

Carbonite



Dasite



Farrar

Lapis



Onyx





Sandstone



Scoria

DECO FLAKE



Skiddaw Grey



Evergreen



Langdale Grey



Dystopian



Serenity Blue



Nevada



Pagoda Red



Himalayan

ACRYDUR™ SYSTEMS

METHYL METHACRYLATE (MMA) HIGH PERFORMANCE FLOOR SYSTEMS

DESIGNED TO PERFORM

Sherwin-Williams Protective & Marine delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe. Our broad portfolio of high-performance coatings and systems that excel at combating corrosion helps customers achieve smarter, time-tested asset protection. We serve a wide array of markets across our rapidly growing international distribution footprint, including oil and gas, water and wastewater, bridge and highway, steel fabrication, flooring, food and beverage, rail and power, marine and passive fire protection.



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