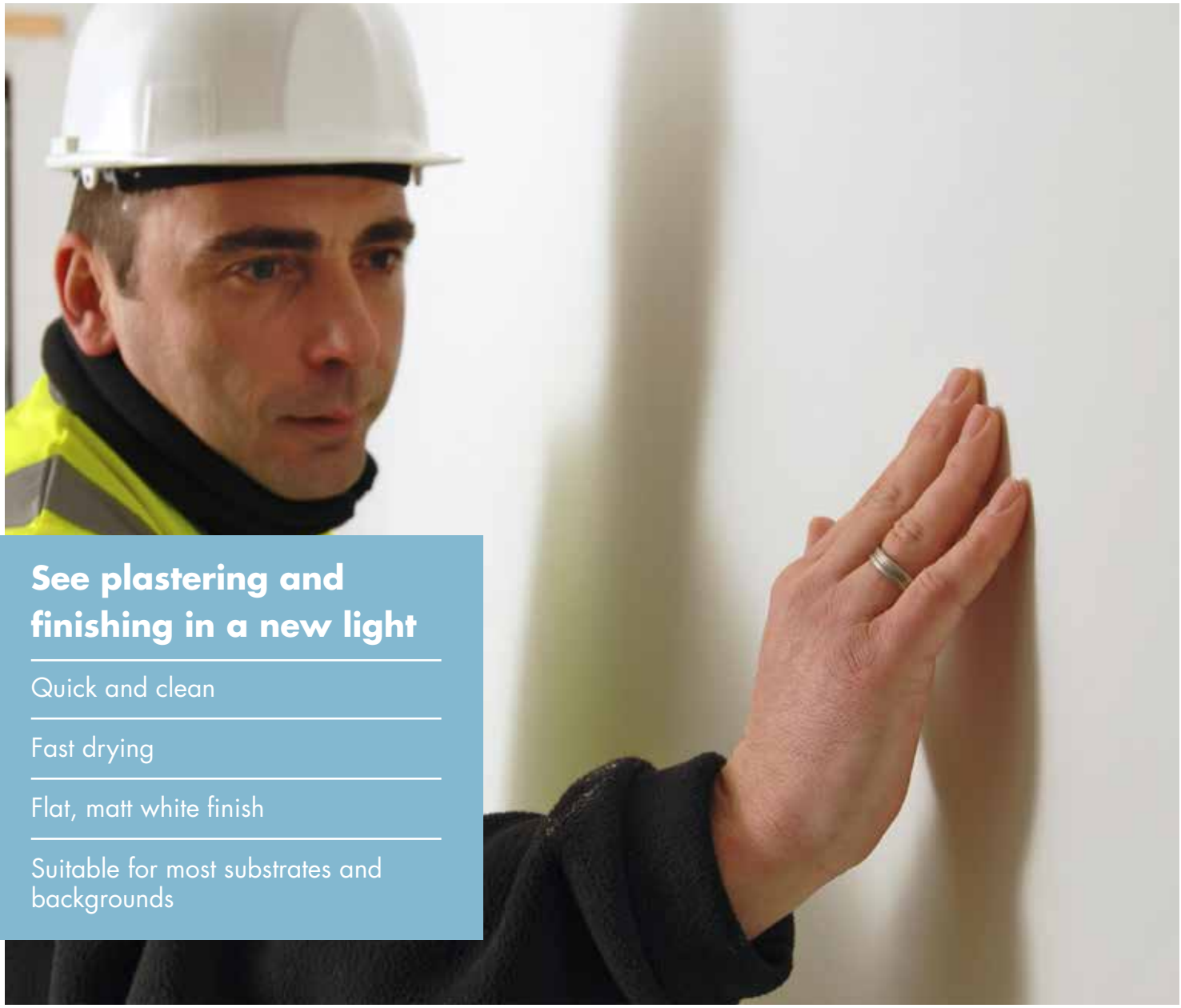
Knauf Readymixed Finishing Solutions

Faster, cleaner, superior finish every time



See plastering and finishing in a new light

- Quick and clean
- Fast drying
- Flat, matt white finish
- Suitable for most substrates and backgrounds

Build for the world we live in

Knauf takes the hassle out of finishing with the full range of Readymixed Finishing materials.

Providing an extremely clean and efficient alternative to traditional methods, the Knauf range of readymixed products are quicker to install and provide high-quality finish.

Knauf Readymixed Finishing Solutions are included within a full system warranty.

Contents

A highly efficient alternative to traditional plaster for finishing walls and ceilings.

An introduction to spray Finishing Solutions

The popularity of the spray method of plaster application has never been higher, giving Knauf a great opportunity to reach new customers in the drywall, plastering and decorating industry.

Providing an extremely efficient alternative to traditional plastering methods, the Knauf range of Airless Readymixed Finishing Solutions are quicker to install and provide a higher quality finish.

Traditional finishing methods have several drawbacks: speed of application; material waste; and inconsistent finishing quality. Spray-applied finishing solutions tick many boxes in terms of sustainability, but also in terms of cost-effectiveness for the total finishing application.

Manufactured from crushed and milled marble together with polymer and organic binders, Knauf Readymixed Finishing Solutions are faster and easier to apply because there is no need for any pre-mixing, eliminating the need for a direct water supply on site.

Faster and easier to apply

Manufactured and pre-mixed by Knauf and delivered to site ready for instant application.

Knauf Airless system products

Knauf Readymixed Finishing Solutions

Product	Properties	Performance and standards
Airless Finish Surface coating 	Knauf Airless Finish is a durable spray-applied finishing solution. • Applied 1— 2mm thick prior to decoration • Provides a smooth, flat finish to walls and ceilings • Up to 22m² coverage per 25kg bag at 1mm thickness • 12 — 24 hours average drying time, dependent on application thickness, temperature, ventilation, air humidity and type of substrate • White finish • Recommended tip size: 531, 533, 535	Knauf Airless Finish is used as a direct finish coat onto smooth backgrounds such as Knauf Plasterboards, or fair-faced concrete panels. Knauf Airless Finish can also be applied as a finishing coat onto Knauf Airless Backing. Knauf Airless Primer Surfacer can be used as an alternative to a mist-coat and one full coat of emulsion paint. Recommended tip size: 419, 519, 619. Ensure good ventilation to eliminate humidity and accelerate drying.

Knauf Readymixed Finishing Solutions

Product	Properties	Performance and standards
Airless Finish Light Surface coating 2-in-1 	Knauf Airless Finish Light is a durable, spray-applied finishing solution. • Applied 1— 2mm thick prior to decoration • Provides a smooth, flat finish to walls and ceilings • Up to 18m² coverage per 16.5kg bag/tub at 1mm thickness • 12 — 24 hours average drying time, dependent on application thickness, temperature, ventilation, air humidity and type of substrate • Light grey finish • Recommended tip size: 529, 531	Knauf Airless Finish Light is used as a direct finish coat onto smooth backgrounds such as Knauf Plasterboard, or as a finishing coat for Knauf Airless Backing. Knauf Airless Finish serves as a 2-in-1 product for finishing and bedding tapes/flex tape/ paper-faced metal beads in drywall partitions and ceilings. Knauf Airless Primer Surfacer can be used as an alternative to a mist-coat and one full coat of emulsion paint. Recommended tip size: 419, 519, 619. Ensure good ventilation to eliminate humidity and accelerate drying.

Knauf Readymixed Finishing Solutions

Product	Properties	Performance and standards
Airless DuraDeco Surface coating/ high traffic/ humidity 	Knauf Airless DuraDeco is a durable, spray-applied finishing solution. • Applied 1 — 2mm thick prior to decoration • Provides a smooth, flat or textured finish to walls and ceilings • Up to 18m² coverage per 25 kg bag at 1mm thickness. • 12 — 24 hours average drying time, dependent on application thickness, temperature, ventilation, air humidity and type of substrate • White finish • Recommended tip size: 531, 533, 535	Knauf Airless DuraDeco is used as a direct finish coat onto smooth backgrounds such as Knauf Plasterboard, fair-faced concrete panels or previously decorated surfaces. Knauf Airless DuraDeco can be used to create a textured finish and provides greater impact and moisture resistance to walls and ceilings. Knauf Airless DuraDeco can also be applied as a finishing coat to Knauf Airless Backing. Knauf recommends that DuraDeco is sanded within 24 — 48 hours after application. Ensure good ventilation to eliminate humidity and accelerate drying.

Knauf Readymixed Finishing Solutions

Product	Properties	Performance and standards
Airless Backing 	Knauf Airless Backing is a durable, spray-applied backing solution. • Apply up to 3mm thick in one application. The process can be repeated until the required flat surface is achieved • Up to 15m² coverage per 21kg bag at 1mm thickness • 12 — 36 hours average drying time, dependent on application thickness, temperature, ventilation, air humidity and type of substrate • White finish • Recommended tip size: 539, 541, 543	Knauf Airless Backing is used as a backing coat, for in-situ poured concrete, thin joint blockwork, poor or undulating backgrounds, to provide a flat, even surface ready to receive a finishing coat application. For best results this product should be used in conjunction with Knauf Airless Finish, Knauf Airless Finish Light or Knauf Airless DuraDeco. Ensure good ventilation to eliminate humidity and accelerate drying.

Knauf Airless Finish installation method

Step 1.

Empty Knauf Airless Finish into the hopper of the spray machine or tub.

Step 2.

Hand- or machine-apply the joints with Knauf Fill and Finish Light or Knauf Joint Filler. Bed the joint tape into the joint and level off, ensuring the tapes are filled to the shoulder of the taper; fill out the screw heads. Bed paper-faced metal beads/flex tape to all internal/external corners. Allow to stiffen. Typically, Knauf Fill and Finish Light or Knauf Joint Filler requires 12 — 24 hours, dependant on adequate ventilation.

Step 3.

Apply an even first coat of Knauf Airless Finish to the walls and ceilings, ensuring an even coverage of material to the surface.

Step 4.

Level flat with a levelling tool (spatula/trowel). After 10 minutes, finish internal/external angles with a corner trowel. Any material removed in the levelling process can be recycled into the hopper/tub. Allow to dry. This will typically take 12 — 24 hours. Ensure good ventilation to reduce air humidity and accelerate drying.

Step 5.

Apply the second coat of Knauf Airless Finish and repeat the process from the first coat, but this time applying more pressure to flatten the surface. Allow to dry. This typically takes 12 — 24 hours. Ensure good ventilation to reduce air humidity and accelerate drying.

Step 6.

Check the surface of the walls and ceilings, and sand away any high spots with 120 grade sandpaper. If using a drywall sander with a vacuum attached, use 150 grade sandpaper. This method is ideal for reducing dust. Allow 24 hours before commencing decoration.The use of tapered-edge Knauf Plasterboard will provide the best results.

Associated products for Knauf Airless finishing system

Knauf Joint Tape

White tape for reinforcing joints by hand or machine application. Knauf Joint Tape is recommended on ceilings and to create the strongest joints. A centerline facilitates the jointing of internal corners.

Roll size		Material No.
Length (m)	Width (mm)	
150	51	258337

Knauf Flexible Metal Tape

Create corners to any angle, even on irregular-shaped structures such as cathedral or drop ceilings or bay windows, and a variety of other applications.

Roll size		Material No.
Length (m)	Width (mm)	
30.5	50	314834

Knauf Dallas B1 External Bead

Knauf Sheetrock Paper-faced Metal Bead is used to create 90° outside corners. Suitable on any thickness of Knauf Plasterboard.

Dimensions			Material No.
Metal (mm)	Paper (mm)	Length (mm)	
20.5	16	2.44	430373
20.5	16	3.05	502167

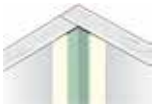
Knauf B1 External Beaded Flex

Knauf Tape-on Outside Flexible Corner Tape, patented style design creates straight, strong outside corner angles from 45° to 180°. Suitable on any thickness of Knauf Plasterboard.

DImensions			Material No.
Metal (mm)	Paper (mm)	Length (mm)	
19	17.5	3.05	430046

Knauf Las Vegas B2 Internal Bead

Knauf Paper-faced Metal Bead is used to create 90°internal corners. Suitable on any thickness of Knauf Plasterboard.



Dimensions			Material No.
Metal (mm)	Paper (mm)	Length (mm)	
9.5	16	2.44	427151
9.5	16	3.05	430374

Knauf B1 Goppinger B4 Edge Bead

Knauf Paper Faced 'L' Shaped Metal Edge Bead. For use where 12.5mm Knauf Plasterboard abuts a suspended ceiling or similar, as well as untrimmed door and window jambs.

DImensions			Material No.
Metal (mm)	Paper (mm)	Length (mm)	
12.7 x 24	32	2.44	427109

Knauf Fill and Finish Light

An easy-to-sand joint compound for bedding tapes and finishing joints in drywall partitions and ceilings. Ready mixed for quick and easy application.

Tub size	Material No.
kg	
5	526512
20	526511

Knauf Joint Filler

A fast-setting gypsum compound for bedding joints by hand application.

Tub size	Material No.
kg	
20	258179

Knauf Betokontakt

A polymer-based product designed to provide a mechanical key to backgrounds which are smooth or have limited suction. Can be applied with a brush, roller or by spraying.

Tub size	Material No.
kg	
20	5454

Knauf Airless Primer Surfacer

Durable and hard-wearing surfacing primer which gives smoother finished walls and ceilings than traditional plasterboard primers. Specially formulated for use with Readymixed Finishing Solutions. Applied in a single sprayed coat.

Tub size	Material No.
kg	
24	465073

Product comparison example

Example: Student accommodation 15,000m²

Comparison of water consumption, preparation time and dust control

Based on the following information:

Product	Competitor powder plaster	Knauf Airless Finish
Material type	Powder Plaster	Readymixed Finish (RMF)
Coverage, m² (2mm thick)	10	16
Bag size, kg	25	25
Site water requirement, L (per bag)	25	0
Material waste	10%	1%

Comparison of water saved

	Powder	RMF	Difference
Bags required	1,500	937.5	562.5
Water required, L	37,500	6,562.5	30,937.5
Wastage allowance, L	3,750	65.6	3,684.4
Total water required, L	**41,250**	**6,628**	**34,622**

NB. 1 litre of water used for every 1kg of powder when mixing

Conclusion for a 15,000m² project:

RMF would save over 34,000 litres of water compared with a powder equivalent. This is 2.26 litres per m².

Benefits of less water:

- Fewer spillages and less mess
- Less manual labour required
- Improved moisture control of the building
- Quicker drying times
- Positive environmental impact

Comparison of preparation time

	Powder	RMF	Difference
Bags required	1,500	937.5	562.5
Bags per mix*	3	5	2
No. of times need to mix/ open	500	188	313
Time taken each mix/ opening, mins	10	5	5
Time spent mixing, hrs	83	16	68

*3 bags of powder mixed at a time, 5 bags of RMF into hopper at a time

Conclusion for a 15,000m² project:

68 hours of preparation can be saved when using RMF instead of traditional powder plasters. This is approx. 27 minutes per 100m².

Benefits of Readymixed preparation:

- Less preparation time results in improved productivity
- No manual mixing means increased consistency in product performance
- Cleaner process, no spillages, no powder, no dust

Comparison of dust control

Hazard	Gypsum powder	RMF
Harmful chemicals	Contains silica particles	Contains no silica particles
Inhalation risks	Plaster dust can cause irritation to the respiratory system	Minimal dust to inhale
Skin contact risks	Contact may cause dry skin, leading to skin irritation	Limited contact, no concerns

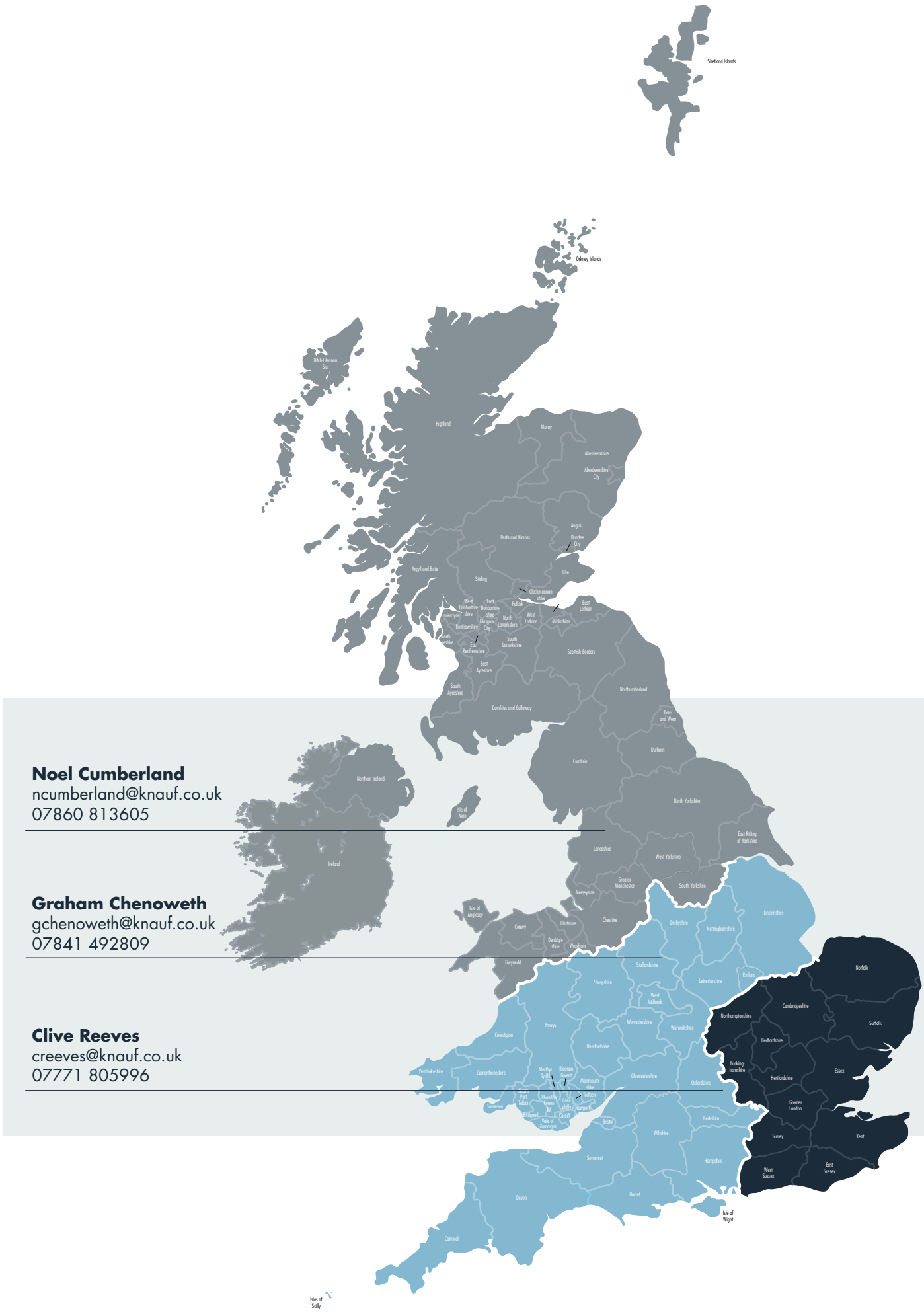
Risk of dust inhalation with powder finishing solutions:

Construction workers are at significant risk from breathing in dust, which can potentially lead to permanent disability and early death. Currently, over 500 workers per year are believed to die as a result of exposure to silica dust alone. (Source: The Construction Dust Partnership (CDP) – Spec Finish September 2014).

Sustainability credentials

- Recyclable packaging and FSC-certified pallets
- Substantial water savings
- Greatly reduced material waste
- No chemical primers or bonding agents required

Finishings business development team



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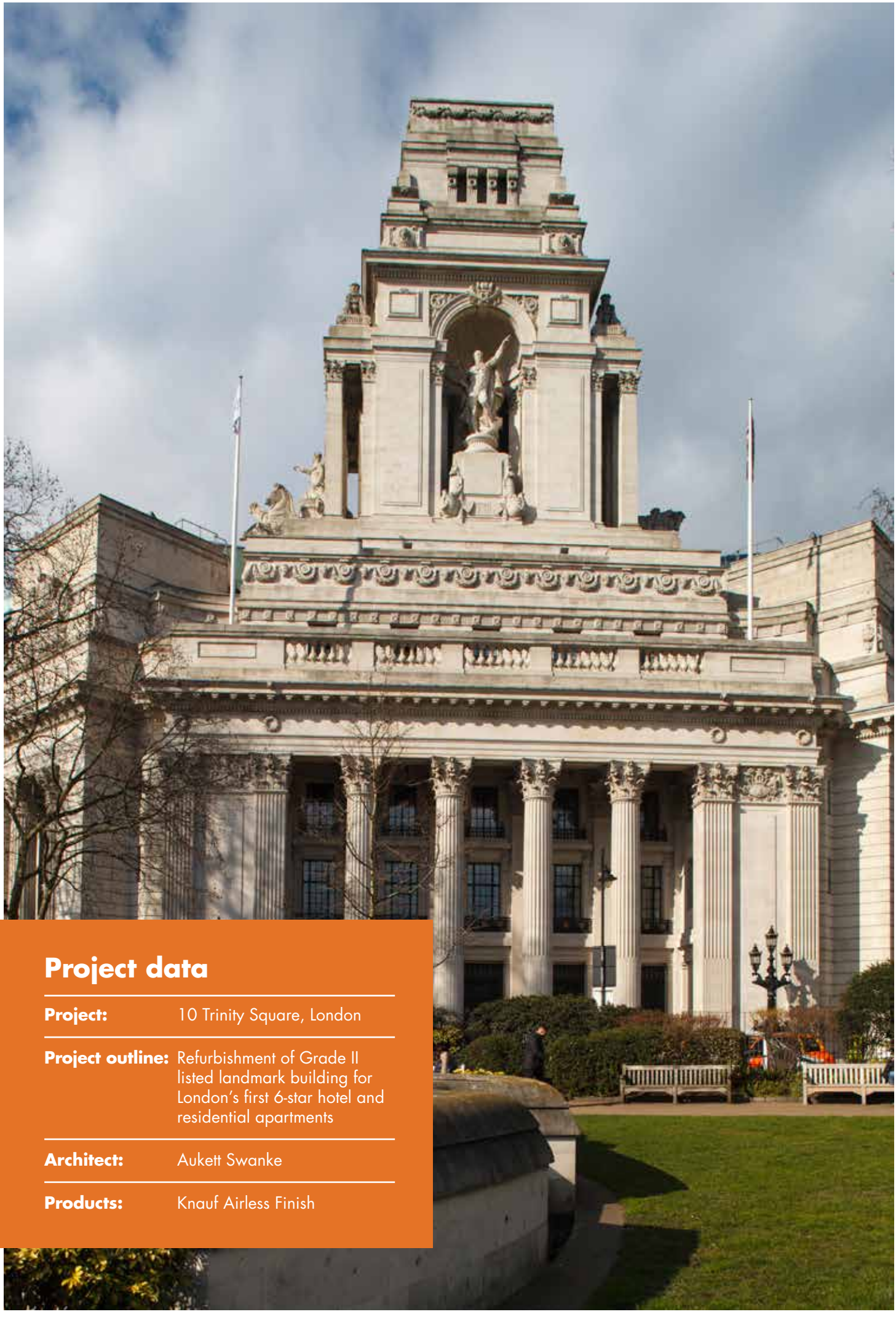


Project data

Project:	10 Trinity Square, London
Project outline:	Refurbishment of Grade II listed landmark building for London's first 6-star hotel and residential apartments
Architect:	Aukett Swanke
Products:	Knauf Airless Finish

Trinity Square

Case study September 2015

London's first 6-star hotel gets the Knauf spray treatment.

Contractors working on London's first 6-star hotel at 10 Trinity Square relied on the assurances of Knauf's Readymixed Finishing Solutions to achieve the quality required for the iconic project neighbouring the Tower of London and St Paul's Cathedral.

Requiring a top-quality and efficient plastering solution for the Grade II listed landmark building, main contractors Ardmore Construction looked to the Knauf Airless Finish. Under construction by developer, Reignwood Group, 10 Trinity Square will be home to the 100-room Four Seasons Hotel London as well as 41 residential apartments on sale to the public.

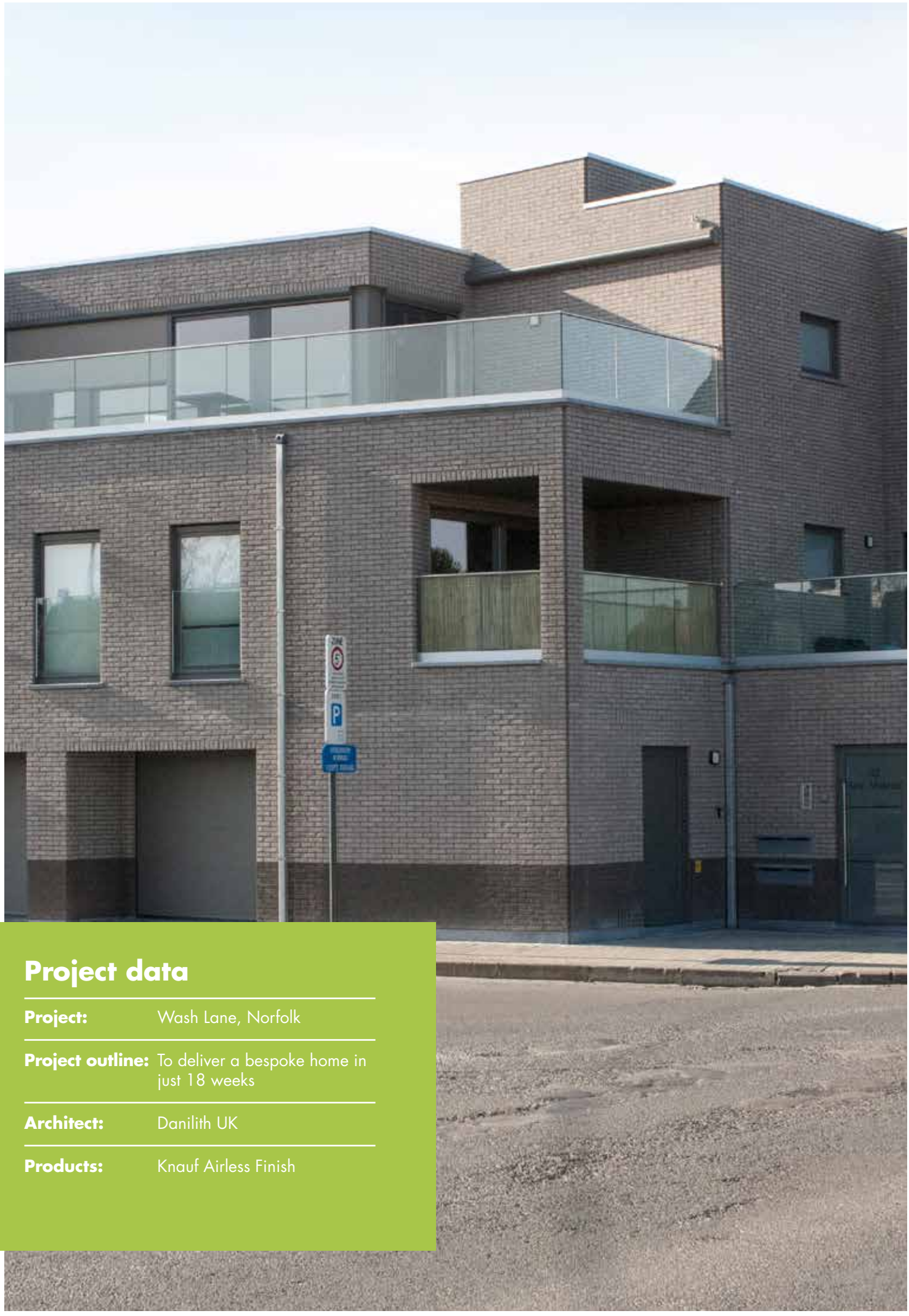
With such a high profile project sub-contractor, Spray Plaster Specialists, responsible for the application of the finishing solution, was reassured by the Knauf products having used them on several other large scale projects. Managing Director, Matt Smith is full of praise for the Knauf Readymixed Finishing Solutions range. "We continue to use Knauf Airless Finish because it's a quick and easy alternative to traditional plaster methods," Matt said. "It gives us the quality assurance we need when tackling large and prestigious projects like this one. Ardmore was keen to go with the spray-applied system to make sure that the project receives a high-quality finish at greater speeds. They have been very happy with the outcome that has been achieved."

Knauf Airless Finish has the added benefit of a quick drying time, meaning Matt and his team were able to work at a rate of 30 rooms per week. This method requires a smaller team to work on site and gives applicators far greater control. The heightened quality over traditional plastering is integral to the readymixed method. Every bag of Knauf Airless Finish arrives on site with the same high-quality product inside. The plaster is pre-mixed in Knauf's factories, giving it an even consistency that is hard to achieve with traditional powder plaster.

"We use Knauf Airless Finish because we know the high quality-finish that we are going to get every time. Because the product comes prepared for us it means we are able to deliver a consistent finish, which is vital."

An additional benefit of the Knauf Readymixed Finishing Solutions range is that it significantly reduces the amount of product waste on site. With the simple spray application process, a thin coat of plaster is applied and any excess is removed using a trowel and re-added to the piston pump machine to be reused. Not only does this create less waste, saving money, it creates less mess on site making life easier for the applicator. Another advantage of the readymixed solution is that there is no need for an on-site water source. Matt explains: "The product comes to site pre-mixed which means we don't have to add any water at any stage. Not only does this save time, but it also reduces the mess on site."

There are four products in the range: Knauf Airless Backing, Knauf Airless DuraDeco, Knauf Airless Finish and Knauf Airless Finish Light. These cover every application, including thin joint block systems, pre-cast concrete panels, aircrete blocks, concrete, plasterboards and composite boards and refurbishment over previously decorated surfaces.



Project data

Project:	Wash Lane, Norfolk
Project outline:	To deliver a bespoke home in just 18 weeks
Architect:	Danilith UK
Products:	Knauf Airless Finish

Wash Lane

Case study June 2016

Knauf Airless Finishing Solutions assist with rapid build speeds.

Working on its first venture in the UK market, specialist offsite construction company, Danilith, specified Knauf Airless Finishing Solutions to significantly increase the build speed of its project in Norfolk.

With a unique construction method using factory-produced brick-faced insulated panels, external windows, doors and electrical conduits built in, Danilith can deliver a bespoke home in just 18 weeks.

Assisting with the rapid build time was the Knauf Airless Finish, a spray-applied readymixed finishing solution that can be applied to concrete panels as well as a multitude of other substrates, including the Knauf range of plasterboards.

Traditional methods of plastering were deemed inferior to Knauf Airless Finish due to the time it would take to prepare the concrete panel surfaces. Traditional methods require a bonding agent to be applied prior to plastering. Knauf Airless Finish, on the other hand, can be applied straight onto the concrete substrate, saving time. Contractors on site in Norfolk were able to complete more than 600 sq ft of ceilings in less than 12 minutes with a two-man team.

Jeremy Jordan, Sales Director for Danilith UK, believes that the fast delivery times, thanks to these modern building methods has opened up a great opportunity in the UK market.

“We will be recommending the Knauf Airless Finish in further projects that we have planned in the UK because of the fast speeds that we can achieve,” Jeremy said. “The finish quality is also second to none.”

The readymixed material not only removes the requirement for on-site mixing, it also eliminates the need for an on-site water source as every 25kg bag of material is delivered with the same consistent product inside. Knauf Airless Finish is also more sustainable than traditional plastering because any excess material removed during the skimming process can simply be recycled back into the hopper. This reduces the product waste to a minimal 1%.

Knauf Airless Finish is made from a mixture of polymers that have many of the same qualities as paint but, unlike paint, it doesn’t mist, meaning there is no over-spray, creating less mess. “I was on site during the spraying process and it was amazing how little mess there was. In fact I was initially worried about wearing good clothes but I couldn’t believe how clean it all was,” Jeremy said.

Knauf Airless Finish was used in combination with Knauf Fill and Finish Light which was applied to the joints where plasterboard was utilised. Knauf Fill and Finish Light is a hand-applied jointing compound used with the range of Knauf jointing accessories.

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