



MONARC™

CREATIVE PRECAST

COLOUR • TEXTURE • DETAIL



Today, concrete represents architectural beauty – life, colour and versatility. MONARC creative precast dazzles with polished aggregates, decorative reliefs, and a multitude of textures and colours. MONARC offers architecturally dynamic precast concrete products that bring a world of design flexibility to your project.

MONARC has taken precast concrete to the next level, presenting architects, designers and homeowners with a complete, custom solution to a broad array of applications – from commercial to residential.

MONARC Creative Precast is fully customised. It is also highly sustainable and enduring. Individual MONARC panels may be specified as structural elements or as a decorative finish.

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Colour

HARMONY AND CONTRAST

Natural New Zealand stones, aggregates, sands and oxides are used individually or in combination to create precast panels that are dramatic architectural features in their own right. Whatever the look, a laser-guided removal of the outer skin using diamond technologies ensures the stones or coloured aggregates shine through to optimum effect. Varying the concrete mix, aggregates and patterns gives unlimited design solutions.

Whether panels are matched to a colour scheme, or to subtly pick up on highlights within a design, the MONARC Creative Precast look is always professional and tonally appropriate.

Texture

A FEEL FOR THE CONTEMPORARY

Texture not only affects the feel of a product but also its look and function. Using the latest European production equipment and techniques, MONARC creates diamond-honed, diamond-brushed or bush-hammered surface textures that add dimension and depth to the panel surface. More than one texture can be applied for an even greater number of design possibilities.

Detailing

A CUTTING-EDGE RESULT

MONARC carves false joints, delineations, cuts and even patterns into the precast panels with fine precision. The effect, when combined with colour or a textured surface, can be breathtaking. State-of-the-art laser technology also allows for the inclusion of other predesigned detailing, such as a logo.

Benefits

HOW MONARC HELPS YOU

Complete versatility

You dream it, we make it. Whatever your design, colour, concrete formulation, or detailing requirements, MONARC makes it happen.

Structural or surface

Individual MONARC panels are available as structural elements or as decorative, surface features.

Ready and waiting

MONARC Creative Precast arrives on site ready to go – simply set it in place, seal it and admire the results.

Eco-friendly focus

MONARC uses in-house recycled water as part of its manufacturing and cutting processes. When sufficient slurry has accumulated, we recycle this, too.

MONARC does not use chemical retardants to decorate or manipulate its products. Diamond brushing across the concrete surface reveals and polishes the aggregate surface.



Finishing Touches

1. Bush Hammering

A rough, evenly textured panel surface that provides a rugged finish. Also available in a fine finish, similar to a sand-blasted surface.

2. Diamond Brushing

A polished, exposed surface texture, with consistent aggregate distribution and depth of exposure – this is a chemical-free process. Effects can be subtle or sparkling, depending on the choice of aggregate.

3. Diamond Honing

This finishing process results in a look similar to highly polished natural stone. Diamond honing creates laser-measured flat surfaces that can reach a glass-like level of smoothness.

4. Cutting

This creates a built-in 3D design that accentuates the beauty of the material. Diamond blades cut precision lines, stripes, bands or full-surface finishes for striking individualistic effects.

5. Milling

MONARC mills can be cut to any predefined angles or lengths. As with cutting, milling offers a world of design inventiveness. V-shaped, U-shaped, or square profiles create false joints, rebate details and bandings for added design possibilities.

6. Routing

Names, brands, logos, patterns and other designs can easily be ground into the precast concrete panels.

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Technical Information

Recommended concrete strength 40mpa or greater

Maximum panel width	3200 mm
Maximum panel length	12000 mm
Maximum panel thickness	350 mm
Minimum panel thickness	125 mm
Maximum panel weight	20 tonnes

Minimum honing and brushing width	600 mm Ø
Minimum bush hammering width	570 mm Ø

Diamond honing grades	5000, 800
Diamond brushing grade	320

Milling tools maximum depth	20 mm
Milling 'U' tool width	50 mm
Milling 'SQ' tool width	50 mm
Cutting and milling tool angles	360° range
Cutting blade thickness	5 - 45 mm in 5 mm increments

Router tool maximum depth	10 mm
Router tool sizes	20 mm Ø, 35 mm Ø
Router file types accepted	CAD, VECAD

During MONARC manufacturing all practical steps are taken to ensure finish and colours are achieved within acceptable tolerances. Being made of natural products, and cured by variable natural influences, finished concrete results can vary between products. No liability is accepted for variances as a result of natural occurrences.

For further comprehensive information please see http://www.nauhria.co.nz/monarc_information.htm#Disclaimer or request by email: monarc@nauhria.co.nz



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Visit our facility to see a
wide range of examples

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Visit our website to watch a video about MONARC

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