



Matacryn[®] WS

PRODUCTS & SYSTEMS GUIDE



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CONTENTS

Introduction to Matacryn	3
System overview	3
Features & benefits	4
Typical applications	4
System build-up	5
Approvals & compliance	6
Case study	7



INTRODUCTION TO MATACRYL

Matacryn utilises advanced technology to offer its seamless bridge deck waterproofing membranes and wearing course systems. Matacryn WS (Pedestrian) bonds with a variety of substrates to provide a sealed wear layer in combination with a flexible, crack-bridging barrier membrane.

It can be used on new bridge construction, routine maintenance or bridge restoration applications, making it a highly versatile solution for many of Australia’s high-traffic footbridges.

As infrastructure demands grow more complex, Matacryn systems provide engineers and builders with the technical performance criteria required to combat substrate porosity, permeability, and early material failure.



SYSTEM OVERVIEW

Matacryn WS is a high-technology, seamless liquid waterproofing and wearing course system engineered specifically for pedestrian, cycleway, and light vehicular bridge decks.

Combining an impermeable protective barrier membrane with a highly resilient wear layer, it delivers high surface friction perfectly suited for walking, running, and cycling.

Because Matacryn WS is a low-density system, it serves as an excellent technical alternative to heavy asphalt overlays on flexural bridge elements, providing exceptional wear, impact, and abrasion resistance with minimal long-term maintenance.

FEATURES & BENEFITS

Functional & Aesthetically Pleasing

Available in a wide variety of micronised pigment RAL colors, allowing designers to incorporate custom patterns, safety demarcation lines, and colored pathways.

Rapid Set and Cure

Minimises costly track or road possession times and facilitates an almost immediate return to service.

Excellent Installation Adaptability

Proven performance with very few installation limitations across all distinct Australian climate zones.

Cold Applied

Safe, straightforward application requiring no material pre-heating or conditioning.

Superior Rain Resistance

Achieves rain resistance within 30 minutes of installation.

Low Equipment and Labour Required

Requires significantly less onsite plant, equipment, and labour compared to conventional hot-rolled asphalt (HRA) or epoxy applications.

Tenacious Chemical Bonding

Chemical fusion between subsequent coating layers completely eliminates the risk of interlaminar debonding.

Crack Bridging Capability

Maintains highly effective crack-bridging performance even at sub-zero temperatures.

Robust Integrity

Highly resilient, seamless surface protection that resists heavy wear, punctures, and indentation.



SYSTEM BUILD-UP

The system build-up detailed below defines the specific layer configuration required for standard pedestrian and cycle traffic exposures.

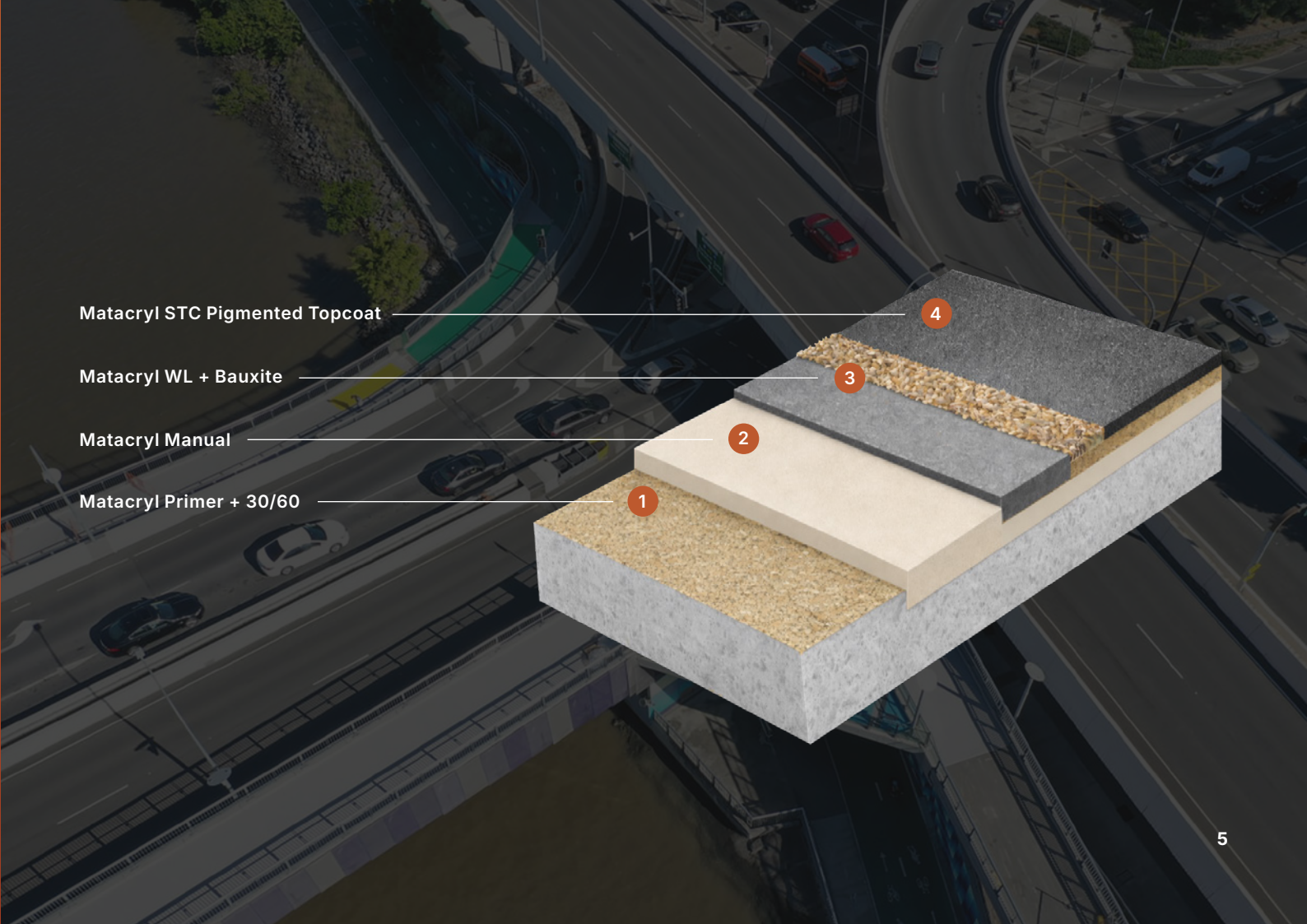
UV STABLE WEARING LAYER WITH WATERPROOFING MEMBRANE			MATACRYL® WS
Layer	Material	Application Rate	Thickness
1	Primer on substrate ¹ broadcast aggregate	Matacryn Primer H or CM Quartz 30/60	0.3 to 0.5 kg/m ² 0.5 kg/m ²
2	Membrane ² (1 or 2 layers)	Matacryn Manual	Minimum 2.8 kg/m ² 2.0 mm
3	Wearing layer broadcast aggregate	Matacryn WL + Matacryn SNL Fillers Bauxite 1.5 – 2.5 mm	1.5 kg + 1.5 kg = 3 kg/m ² 1.2 – 1.4 mm 100% coverage
4	STC topcoat ³	Matacryn STC	0.8 kg/m ²

¹ Porous or uneven substrates may require multiple primer coats
² Membrane application rate / thickness: Minimum 2.8kg/m² for single layer
³ Application to be completed in two (2) coats



TYPICAL APPLICATIONS

- Pedestrian and footbridge deck surfaces requiring high slip resistance and safety profiles.
- Dedicated regional and urban cycleways and bicycle paths.
- Light vehicular access bridges, ramps, and specialty transit roads.
- New structural bridge builds, routine civil maintenance, and fast-track asset restoration projects.



At Hychem Infrastructure, compliance is the foundation of performance.



APPROVALS & COMPLIANCE

Matacryl WS meets stringent local and global engineering compliance standards:

- Victoria Department of Transport / VicRoads: Approved and compliant under Section 691 specifications.
- BBA Testing & Certification: Evaluated under international technical approvals for construction.
- Testing to AS/NZS 4586 Slip resistance classification of new pedestrian surface materials.



CASE STUDY

Enhancing Safety and Durability for Brisbane's Go Between Bridge

Providing a safe, low-maintenance, and slip-resistant surface for a high-profile multi-use pathway over a major river crossing in Brisbane's CBD.

Location

Brisbane, Queensland

Challenge

The system needed to withstand continuous pedestrian and cycle traffic while resisting environmental degradation and weathering from Queensland's intense climate.

Solution

Matacryl WS was selected as the seamless liquid waterproofing and wearing layer system for the bridge's pedestrian and cycle pathways.

Outcome

By employing distinct RAL colored finishes (including vibrant greens and high-visibility yellows), the system provides long-term concrete protection while establishing clear, visually striking safety zones for different traffic types.

Products

Matacryl® WS



Your trusted partner in infrastructure protection

Partner with Hychem Infrastructure, where decades of product and engineering experience come together to protect Australia's infrastructure for generations to come.

OUR LOCATIONS

Brisbane

Melbourne

Sydney

Head Office

Unit 1, 30 Bluett Drive
Smeaton Grange NSW 2567

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1300 HYCHEM
infra@hychem.com.au

hycheminfrastructure.com.au