



NASAHI® EXTERNAL WALLS COATING SPECIFICATION

EXTERNAL COATINGS

The selected external coating must provide weatherproofing and durability. Nasahi® approves coating systems that achieve the performance levels outlined in Table 3 below and Table 4 on Page 15 and Clause 2.8.4 of AS 5146.3. Nasahi® have provided an example of a coating system below that achieves compliance with these requirements. It is the responsibility of the building designer to select a suitable system, and for the installer to ensure these specifications are met, complete an Installation Compliance Certificate, and submit copies to both the builder and Nasahi®.

Table 1 - Coating Performance Level

TEST	PERFORMANCE REQUIREMENT	UNIT
Water Transmission Resistance	< 10	g/m ² /24hr/1kPa
Water Vapour Permeability	w. sd ≤ 0.2	kg/(m ² .h ^{0.5})
Co-efficient of Water Absorption	w ≤ 0.5	kg/(m ² .h ^{0.5})
Equivalent Air Layer Thickness of Water Vapour Diffusion	sd ≤ 2	m
Durability	Minimum 7-year warranty	
Elasticity	Bridge a minimum crack width of 1mm	

*Note: A co-efficient of water absorption (w ≤ 0.5) means that minimal water is absorbed regardless of time period.
A Coating with Sd ≥ 2m has less resistance to water vapour diffusion (escape) than a static 2m thick layer of air.*

SURFACE PREPARATION

Before applying the coating system, the applicator must hose down the panels with fresh potable water, ensure that all required penetrations and fire collars have been correctly installed and Nasahi® Panels are dry and clean of debris/oil. Surface protrusions must be trimmed back, and large imperfections filled with Nasahi® Panel Adhesive. Exposed reinforcing bars must be coated with Nasahi® Corrosion Protection Touch up Paint. AAC substrate shall be allowed to reach equilibrium moisture content prior to application of coating.



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PERFORMANCE INFORMATION

PAGE 2 OF 2

RECOMMENDED COATING SYSTEM

Nasahi® recommends the following system be used on External Walls as it has been shown to meet the approved coating specification.

Table 2 - Recommended Coating System

APPLICATION TO	RECOMMENDATION
External Corner Angles	32mm x 32mm Aluminium, PVC or Stainless-Steel corner angles.
Primer Coat (to manufacturer specifications)	Primer/Sealer to enhance adhesion (if required by coating manufacturer)
Base Coat Render*	High build acrylic, Portland cement-based render with thickness of 2-6mm. This base coat must encapsulate the reinforcing mesh.
Reinforcing Mesh*	165g/m2 Alkali resistant fiberglass mesh with minimum aperture 5mm square embedded into the base coat render.
Texture Coat*	Cement based polymer modified dry powder or wet pre-mixed full acrylic texture coating with minimum thickness 1mm applied with trowel or float over base coat.
Paint System	A minimum of two coats of 100% acrylic-based exterior paint should be applied to a thickness of 150um per coat, and have crack bridging capability of 5 times the total dry film thickness. Note. Must be used in marine exposure environments as per AS4654.1.

* These components of the coating system are required as per AS5146.3.

TYPE A AND B NON-COMBUSTIBLE CONSTRUCTION

As per Clause C2D10(4)(O) of the NCC 2022, the above external coating system is suitable to be used in Type A and B non-combustible construction and the Nasahi® wall system arrangement complies with the Performance Requirement CP1 and CP2 of the NCC. Only Aluminium or Stainless Steel corner angles (and not PVC corner angles) may be used in Type A or B construction.

