

TECHNICAL NOTE

VENTED BASE SHEET

Nuraply 3PV-SA is a self-adhesive vented base sheet used within the Nuraply 3PM two-layer membrane system in conjunction with a 4mm mineral chip cap sheet. It is a 3mm thick, mesh-reinforced polymer-modified bitumen membrane. It is suitable for use on concrete substrates and on PIR board as part of a Nuratherm warm roof.

CONCRETE SUBSTRATES

Nuraply 3PV-SA has a diamond pattern on its underside formed from alternating sections of modified bitumen and sand (talc). This pattern creates partial adhesion to the substrate, providing a strong bond to the substrate while also allowing any vapour from the construction process to be dispersed under the membrane without causing blisters.

While the Nuraply 3PV-SA base sheet allows moisture to be dispersed underneath it, it does not allow it to escape. For this reason, when installed on a concrete substrate, a 75 RH (<5% moisture content) is required. Additionally, Nuraply 3PV-SA cannot be applied to green or damp concrete.

WARM ROOFS

The Nuraply 3PV-SA base sheet on our Nuratherm warm roof system was originally designed to allow the minor off-gassing of insulation boards to evenly disperse underneath the base sheet by means of the diamond pattern. In New Zealand, we do not need the Nuraply 3PV-SA to carry out this function; by the time we actually receive our PIR boards, they are fully cured and do not produce any more gas.

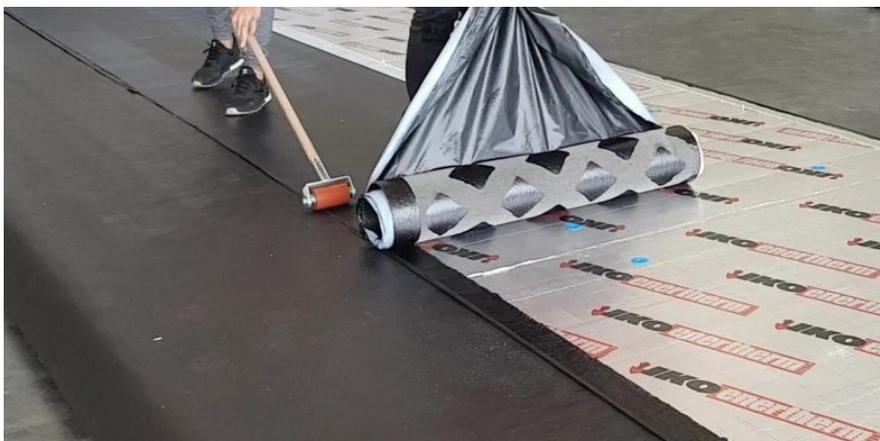
Despite this, Nuralite continues to use 3PV-SA for the Nuraply 3PM two-layer system. We use Nuraply 3PV-SA because it is part of the IKO tested and proven system, and because it allows any minor moisture entrapped during construction to become vapour dispersed under the membrane. While the Nuraply 3PV-SA layer can disperse some trapped vapour, the substrate must be kept completely dry throughout the Nuratherm installation process. The best method to keep the substrate dry is with shrink wrap to the structure. If shrink wrap is not achievable, tarps and night joins may be used as a less preferred option.

UPSTANDS AND OTHER SPECIFIC AREAS

Some areas of application are unsuitable for Nuraply 3PV-SA. Areas where Nuraply 3PV-SA should not be used are upstands, soles of gutters, gutter walls, outlets, drip edges, penetration detailing, and under/over flashing, these areas must be fully bonded with Nuraply 3PB/SA.

If Nuraply 3PV-SA is left uncovered on an upstand, the open edges of the vented Nuraply 3PV-SA base sheet can allow moisture ingress beneath the membrane and into the system. This does not occur with fully bonded Nuraply 3PB/SA as a fully bonded basesheet does not have the diamond pattern underneath it.

If Nuraply 3PV-SA is used on a vertical surface, the partial adhesion of Nuraply 3PV-SA's diamond patterned underside can result in slumping depending on the installation.



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