

## TECHNICAL NOTE

### VENTED BASE SHEET

Nuraply 3PV-SA is a self-adhesive vented base sheet used within the Nuraply 3PM two-layer membrane system along 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.

The partial self-adhesive installation is thermally activated during the installation of the top layer with the torch. The vapour pressure-distributing lower surface is self-adhesive, featuring a special channel structure for excellent vapour diffusion.

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 while allowing vapour from the construction process to disperse under the membrane.

### CONCRETE SUBSTRATES

The concrete substrate must be prepared with a coating of Nuraflux Primer. While the Nuraply 3PV-SA base sheet allows moisture to disperse underneath it, vents may be installed to enable moisture vapour to escape. A 75 RH (5%) is required when installing on a concrete substrate. Nuraply 3PV-SA cannot be applied to green or damp concrete.

### WARM ROOFS

Nuraply 3PV-SA is an integral part of the European IKO warm roof system. It serves as a shock absorber within the system by allowing minor moisture trapped during construction or condensation to disperse as vapour under the membrane. The membrane may form pillows at points where the system is under stress, such as roof junctions, substrate movement, or entrapped construction moisture, thus protecting the membrane. This design prioritises waterproofing integrity over aesthetics. To reduce this occurrence, use lighter coloured membranes where possible.

Although the Nuraply 3PV-SA layer can dissipate some trapped vapour, it is essential that the substrate remains entirely dry throughout the Nuratherm installation process. The most effective method to ensure a dry substrate is to keep all materials dry and shrink wrap the structure. If shrink wrapping is not feasible, tarps and night joints may be employed as alternative, though less preferred, options.

### 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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