

Technical Data Sheet



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Replaces New

NPU Adhesive

Generic Type: A polyurethane two-part adhesive used for a range of specialist bonding and sealant applications. It has a semi-gelled structure allowing both horizontal and vertical and overhead applications.

Some examples of use:

- Adhesive for bonding in the Flexitherm roofing system
- Adhesive in the graphite core roofing system.
- Adhesive for Formwall hygienic wall cladding sheets.
- Adhesive for timber flooring.
- Durable sealant: good chemical resistance; rapid cure, Full thru-cure regardless of thickness. Non-slump.
- Waterproof adhesive
- Waterproof adhesive for exterior carpet and grass carpet applications.

TYPICAL PHYSICAL PROPERTIES/ FEATURES:

- Water resistant once cured.
- Remains resilient.
- Resists oxidation (hardening).
- Non-slump
- Prompt curing.
- Good grab when bonding.
- No Fumes or solvents. zero VOC's.
- Colour: Light beige / brown. Approx match to 10C33.

SUGGESTED USES:

- As above.
- Adhesive
- Sealant

NOT RECOMMENDED:

- Application to uncured concrete (minimum cure 28 days).
- Application to unstable substrates.
- Application to unprepared and/or WET and DAMP substrates.
- For bonding untested materials.

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SURFACE PREPARATION:

(Refer to Nuplex full specific specification)

Must be DRY, clean , dust and oil free.

Also the substrate must be free of other sealers and coatings.

However Aquaguard 101 may be used to prime or seal of water .

Mix METHOD:

6.5kg kit pack.

Item number	Contents	Kit form
BNANPU	NPU ADHESIVE Part A 5.94kg	Packed in one 10 lt pail unit with a separator. Ie the resin and hardener are in the same pail.
6.5 kg packed kit	NPU ADHESIVE Part B 0.56kg	

MIXing

Add the hardener into the centre of the resin and mix carefully and stir slowly until uniform.

Power slow speed paddle mixer .

Use a long flat broadknife to scrape the pail sides; reincorporate into the mix and then stir again.

Note:

NOTE this can only be used as a 2-part product used in the ratio above.

Adding more or less of either component will cause serious performance reduction.

Care must be taken to avoid air entrainment.

APPLICATION METHOD:

Wear gloves as the material will bond well to skin.

ADHESIVE

Once mixed, application is almost always by notched trowel. Consult the information sheet for the specific system you are using. Select the correct notch size.

Take care to apply evenly and consistently.

Once applied quickly place the material being bonded into the wet adhesive and apply consistent and even force to ensure even bonding. Keep the pressure applied (tapes, weight, etc,) until cured.

SEALANT

Joint sizes are normally twice as wide as deep. As NPU is a two-part , it is not susceptible to excessive shrinkage on curing. Therefore larger joints may be undertaken as required. NPU also makes a good sealant for around pipes through floors where movement is expected; eg thermal movement.

Ensure the joint sides are freshly cut and dry clean. Ensure the joint base is clean. Use PEF foam rod as appropriate.

Tape the surface of the sides of the joint and bag in the mixed NPU.

Tool off the excess carefully and remove the tape. Protect the area until cured.

COVERAGE RATES:(Approx)

Approx 1lt / m². But this will vary depending on the specific application.

Read the data sheet for that system.

Usage in sealant joints is calculated simply on the joint volume.

Eg a joint 12mmW x 6mmD x 100m L would require 7.2 Lts of NPU (no wastage)

THINNING: Not suitable

Clean up: Solvent HA. Once cured it will be difficult to remove.

CURE AND DRY TIMES:

(25°C 50% RH)

Workable pot life: 20 - 30 minutes

Cured:

4 hours