

PRODUCT DATA SHEET
NEUTRON NEUKLAD

PRODUCT DESCRIPTION:

Neuklad is one of the most durable and versatile exterior waterproofing coatings available.

Neuklad is based on a proprietary Pure Acrylic blend and is re-enforced with a carefully selected natural and pure fibres. These specially selected combination of raw materials ensure that **Neuklad** has unsurpassed flexibility, elongation and elasticity, together with excellent UV and water resistance.

INTENDED USES:

1. To waterproof and protect exterior wall surfaces.
2. For use on vertical surfaces, flat roofs, pitched roofs, parapets, gutters and flashings.
3. To bridge fine hairline cracks on exterior wall surfaces.
4. Can be applied to cement plaster, concrete, brickwork, fibre-cement and suitably primed metal and wood substrates.
5. As a waterproofing system in conjunction with non-woven polyester membrane.

FEATURES:

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| 1. Water-based | Easy cleaning, low odour and quick drying, non-hazardous, environmentally and user friendly. |
| 2. Excellent Flexibility and elongation | Bridges hairline cracks. |
| 3. UV Resistant and Weatherproof | Protect substrate against all weather conditions. |
| 4. Waterproof | Resists water ingress/penetration. |
| 5. Pure Acrylic Sheen | Superior washability, detergent resistance, low dirt pick up. |
| 6. Water vapour permeable | Allows coating to breathe, allowing moisture to escape, but resists ingress of water into the coating. |
| 7. 100% Lead Free & low VOC. | |

PRODUCT INFORMATION:

<u>Appearance:</u>	Sheen
<u>Colours:</u>	White and colours as per latest colour card. Tint bases for the Neuklad tint system
<u>Solids:</u>	± 55% by mass and ± 44% by volume.
<u>Density:</u>	± 1,25kg/l
<u>Recommended Dry Film Thickness:</u>	± 75µm per coat at 5-7m² per litre spreading rate.
<u>Minimum Dry Film Thickness:</u>	60µm per coat. Two coats required.
<u>Spreading rate:</u> (without membrane)	5m² - 7m² per litre, dependent on substrate type and texture.
<u>Spreading rate:</u> (with membrane)	1.5 Lt per m² - 1.8 Lt per m² , dependent on substrate type and texture
<u>Viscosity at 23°C:</u>	± 87Kµ (235 grams) pp.
<u>Paint Film Guarantee:</u>	15-years for application to exterior walls only.
<u>Flash point:</u>	Non flammable.
<u>Green Star Category:</u>	Walls & Ceilings.
<u>Total Volatile Organic Compound:</u>	TVOC, 16g/L maximum for White & Pastel tinting base.
<u>Respecting the environment:</u>	100% Lead Free & Low VOC. Dispose of excess product and containers in a responsible manner without harming the environment.

This product is manufactured under strict SABS ISO 9001 quality standards.

DATE: 21 FEBRUARY 2013 - THIS SUPERSEDES ALL PREVIOUS PUBLICATIONS

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STORAGE:

Keep containers properly sealed.
Store away from direct heat, sun and severe cold in a place with adequate ventilation.

PACKAGING:

Standard Colours, Pastel & Clear Base 5Lt, 20Lt
White 1Lt, 5Lt, 20Lt

APPLICATION DETAILS:

- Mixing:** Stir thoroughly with a flat paddle to an even consistency. Stir occasionally during use.
Method: Roller, brush.
Thinning: Only when specified on a Prominent project specification otherwise not recommended.
Cleaning: Tap water.
Conditions: Temperature between 5°C and 40°C. Relative humidity of less than 85%, preferably between 10:00 and 16:00. Ideally, apply when the temperature of the substrate is at least 2°C above dew point. If possible away from direct sunlight.
Drying time: **Touch dry** = 30 minutes. Note: higher temperatures will accelerate the drying times (approximately halved for every 10°C increase), whilst lower temperatures will retard the drying times (approximately doubled for every 10°C decrease).

Recoating time: 4 hours at 23°C.

No of coats /Requirements: See application details below:

- Without membrane:** 2 coats.
- With membrane:** 5 coats i.e:
1st coat (primer/bonding coat): Neutron Neuklad thinned 10% with water, at **± 2-4m² per litre**, allow drying.
2nd coat (bedding coat): Neutron Neuklad un-thinned at a spreading rate of **± 2m² per litre**, while wet bed the polyester membrane into the coating until completely saturated.
3rd coat (saturation): Neutron Neuklad un-thinned at a spreading rate of **± 2m² per litre**.
4th and 5th coat: Apply 2 full coats of Neutron Neuklad to complete the system at a **± 4 m² per litre per coat**.

SURFACE PREPARATION:

Surfaces must be sound, clean and dry (moisture content below 15%) before painting.

New work:

- Exterior cement plaster: Prime with one coat Neutron Alkali Resistant Sealer.
- Cement plaster with rising damp: Providing the moisture is below 40% apply 1 coat Prominent Dampcure thinned 20% with ProGold Mineral Turpentine and one coat undiluted with 24 hours drying time between coats. Only then apply 1 coat Neutron Alkali Resistant Sealer.
- Interior cement plaster: Prime with one coat Neutron Alkali Resistant Sealer.
- Gypsum plaster/board: Prime with one coat Neutron Alkali Resistant Sealer.
- Fibre cement: Prime with one coat Neutron Alkali Resistant Sealer.

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SURFACE PREPARATION:

Redecorating:

It is advisable to test the compatibility of coatings when redecorating is involved, i.e. paint a small section and then check the adhesion after 24 hours by applying a strip of masking tape and attempting to rip the paint off.

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| 1. Chalky surfaces | Wire brush/high-pressure water jet the surface and apply one coat Neutron Alkali Resistant Sealer. |
| 2. Sound matt emulsion painted surfaces | Clean down with ProGold General Purpose Cleaner/water mixture (1:5), allow drying. If sound apply direct. |
| 3. Sound gloss or sheen painted surfaces | Sand down to a matt finish and then wash with ProGold General Purpose Cleaner/water solution (1:5). Allow drying and apply direct. |
| 4. Painted surface in poor condition, i.e. extensive peeling | Remove to sound surface and treat as new work. |

LIMITATIONS:

1. The low VOC compliance is applicable on White and Pastel Tinting Base for batches manufactured from 1 September 2010 onwards.
2. Neutron Neuklad can only be applied to specified substrates and recommended conditions.
3. Do not apply to surfaces where the temperature is less than 10°C.
4. Cannot be applied in cold and moist conditions.
5. Spot touching up over large areas will be noticeable.
6. Special spraying equipment is necessary for spray applications due to fibre content in Neutron Neuklad.
7. To ensure colour consistency of the applied coating, check that the batch numbers are the same on all containers.
8. Only Neuklad approved colours will be covered under the Neuklad Paint film Guarantee.
9. The Neuklad Paint Film Guarantee only covers the application of Neuklad to façade surfaces.
10. Neutron Neuklad is not designed for the purpose of collecting rain water off painted roofs for drinking purposes. It is therefore essential for customers who collect rain water from painted roofs for drinking purposes to follow stringent guidelines. For more information on the guidelines contact **Prominent Technical Department on 0861 776 646 or 011 389 4746.**

SAFETY PRECAUTIONS:

1. Keep out of reach of children.
2. Ensure to maintain good ventilation during application and drying process.
3. In case of skin contact, wash with soap and water or a recognised skin cleaner. Avoid contact with eyes. In case of contact with eyes rinse immediately with running water and seek medical advice.
4. If product is ingested drink plenty of water or milk. Do not induce vomiting at any time. Seek medical advice.
5. Refer to the Material Safety Data Sheet (MSDS) for detailed information about the product and transportation and classification criteria. MSDS is available on www.prominentpaints.co.za or from Prominent Customer Service Department.
6. To avoid any risk of spillage, always transport in a secure upright position.
7. If the surface to be painted is asbestos then the preparation, cleaning and/or removal of broken asbestos sheeting needs to be done in compliance to the **Asbestos Regulations, 2001** of the Occupational Health and Safety Act 1993. (ACT NO 85 of 1993). Contact Prominent Technical Department on 0861 776 646 or 011 389 4746 if a copy of the Asbestos Regulations is required.

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TINT BASES:

Characteristics:

1. The tint base containers are only filled to levels which are specific for each tint base to allow the calculated volume of colourant to be added in order to achieve the volume indicated on the container after tinting.
2. Tint bases and colourants are unfinished products which should not be used on their own.
3. Only once the prescribed colourant is added to the specific tint base will the finished product comply with the technical features and related information as set out in this TDS.
4. The calculated VOC compliance to 16g/L maximum is only applicable to product tinted from Pastel Tinting Base.

Product Information:

Colourant to be used: Prominent colourants are **100% Lead Free** specifically formulated for use with Prominent Pro-Matic tinting system.

Tint Bases: Neuklad Pastel Base PPM and Neuklad Clear Base PPM.

DISCLAIMER:

The information contained herein is given in good faith and is meant merely as a guide for the specifier or user. It is gained from results obtained from our experience and tests carried out under controlled conditions. No warranty/guarantee is implied since the conditions of use, application method, substrate and cleanliness of the substrate are beyond Prominent control. For a surface specific specification contact Prominent Customer Service Department for assistance. This issue supersedes all previous publications.

Important Note; Technology may change with time, necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used for reference. Prominent Technical Data Sheets are available on www.prominentpaints.co.za or from Prominent Customer Service Department.

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