



The Nuplex Nuthane range comprises 3 industrial grade floor topping systems specifically designed for the Australian and New Zealand manufacturing industry. Nuthane polyurethane resin is blended with specifically formulated and graded aggregates to produce flooring systems that are hard and durable, resistant to impact, abrasion, thermal shock and chemicals, whilst being non porous, hygienic and easily cleaned. Nuthane is fully bonded to the substrate and therefore becomes part of the building structure.

### NUTHANE TYPES

| System        | Dry Film Thickness | Surface Finish                        |
|---------------|--------------------|---------------------------------------|
| Nuthane T     | 6-12mm             | Light Surface Texture                 |
| Nuthane SB    | 4-6mm +            | Variable Anti-Slip Finishes Available |
| Nuthane MD/SL | 2-4mm              | Smooth                                |

### FEATURES

- Variable Systems for specific solutions
- Applied by specialist flooring contractor
- Application to damp / high moisture content concrete
- Available in a number of coloured applications
- Quick dry and set rates for minimal business disruption
- Zero odour
- Gloss or matt finishes available





## TYPICAL AREAS OF USE

|  |  |
|--|--|
| <b>Industrial food manufacturing, dry and wet process areas:</b> | Meatworks – Abattoirs – Dairies – Poultry – Bakeries – Fish Process<br>Chillers – Freezers – Cool Stores |
| <b>Drink / Liquid Manufacturing Facilities:</b>                  | Breweries – Wineries – Juice Manufacturing – Distilleries  |
| <b>Commercial Kitchens:</b>                                      | Fast Food Outlets – Butchery Floors – Hotels – Restaurants – Bars  |
| <b>Heavy Industrial Manufacturing Areas:</b>                     | Printing – Laundries – Chemical Bund Lining – Chemical Process<br>Motor Manufacturing / Servicing        |
| <b>Supermarkets:</b>   | Retail Floor Areas – Deli Prep – Butcheries – Bakeries – Fish Process                                    |
| <b>Others:</b>   | Ablution Blocks – Changing Facilities  |

### Interior & Exterior Applications

Applications to new or existing concrete. Horizontal & Vertical applications for truly seamless flooring. Will form Ramps and Falls. Compliant with NZ Building Code E3 internal water 3.1.1e (use full fibreglass laminate floor & joint system in these situations).

## NUTHANE FLOOR COATING PERFORMANCE GUIDE

| System                                | Characteristics  | Selection   |
|---------------------------------------|--|---|
| Nuthane T<br>Nuthane SB<br>Nuthane MD | 6-12mm<br>4-6mm<br>2-4mm   | Nominal Thickness   |
| Nuthane T<br>Nuthane SB<br>Nuthane MD | Light Texture<br>Variable Profiles Available<br><i>18/36 Broadcast Heavy</i><br><i>K20's Broadcast Light</i><br>Smooth | Slip Resistance Option                                      |
| Nuthane T<br>Nuthane SB<br>Nuthane MD | Excellent<br>Excellent<br>Excellent  | Chemical Resistance<br>(see full chemical resistance chart) |
| Nuthane T<br>Nuthane SB<br>Nuthane MD | Excellent<br>Excellent<br>Good   | Impact Resistance   |
| Nuthane T<br>Nuthane SB<br>Nuthane MD | Excellent<br>Excellent<br>Excellent<br><i>Rolling Loads</i><br><i>Good Fork Truck Pallet Movements</i>                 | Wear Resistance   |
| Nuthane T<br>Nuthane SB<br>Nuthane MD | Trowel<br>Slurry & Broadcast<br>Trowel & Spike Roller  | Installation Method   |
| Nuthane T<br>Nuthane SB<br>Nuthane MD | Light Foot Traffic 6 Hours<br>Full Use > 12 Hours<br>Do Not Expose to Water after 24 Hours                             | Minimum into service time<br>(time after last coat) @ 20°C  |
| Nuthane T<br>Nuthane SB<br>Nuthane MD | Excellent when used in conjunction<br>with Nuplex Supadeck Polyurethane<br>Top Coat                                    | UV Stability  |
| Nuthane T                             | Matt finish (unless overcoated)  | Matt or Gloss Finish  |
| Nuthane SB                            | Either – Nuthane Top Coat Matt<br>Supadeck Top Coat Gloss  |   |
| Nuthane MD                            | Matt Finish 9 Unless   |   |



## BENEFITS

- Proven performance for over 10 years in the food industry.
- Contains Sterishield®. Does not support bacteria or fungal growth.
- Hygienic – impermeable and non-porous with a good working surface finish. It is easily washed and cleaned.
- Slip resistant – varying degrees of surface texture available from smooth to coarse slip resistant finish. Finishes comply with AS/NZS 4663:2002, AS/NZS 4586:2004.
- Co-efficient of friction when wet: Steel float finish (smooth) 0.46, Glass float finish 0.58, Coarse slip resistant finish 0.79.
- Ease of repair – damaged areas are cut out and re-trowelled back to grade level with new materials quickly and without disruption.
- Rapid installation, efficient set and drying times mean Nuthane floors can be in service within hours of completion.
- Resistant to cracking and crazing and is joint free apart from necessary control or relief joints in the substrate.
- High thermal shock resistance – in applications where rapid and large temperature change is expected. 8mm + thicknesses.
- High abrasion resistance – three to six times more abrasion resistance than basalt concrete.

## TECHNICAL DATA

|   |  |
|---|--|
| Performance at 25°C 50%RH                           |  |
| Workable pot life                                   | 15-20 minutes  |
| Hard Dry  | 3 hours  |
| Light foot traffic                                  | 6 hours  |
| Recoat  | Within 24 hours  |
| Full Use  | >12 hours  |
| Moisture absorption                                 | 0.04% as per ASTM D570-63  |
| Temperature Resistance (dry)                        | -25 – 90°C @ 6mm thickness<br>-25 – 120°C @ 9mm thickness  |
| Temperature Resistance (wet)                        | -25 – 70°C @ 6mm thickness<br>-25 – 100°C @ 9mm thickness  |
| Flexural strength                                   | 25Mpa  |
| Tensile Strength                                    | 15N/mm <sup>2</sup>  |
| Weight per m <sup>2</sup> @ 8mm thickness:          | 17-18kgs   |
| Slip Resistance                                     | Variable (seek system and degree required)   |
| Wet Pedulum On Site Test Performance                |  |
| Abrasion resistance                                 | 1000 cycles,   |
| ASTM H22 abrasive wheel, 1kg load                   | Abrasive wear index 68   |
| Co-efficient of expansion                           | 2.23 x 10 <sup>-5</sup> /C between 20°C and 60°C when heated at 1°/minutes   |
| Minimum application temperature                     | +5°C   |
| Colour:   | Red, Green, Grey, Tan, Cream, other dark deep tone colours available on request  |
| Fire Resistance –AS/ISO 9239-1-2003 non directional | Critical Heat / Radiant Flux : 6.5Kw/m <sup>2</sup><br>Smoke Value: 379Kw/m <sup>2</sup>   |
| Packaging   | Resin 20ltr Metal Pail<br>Hardener 20ltr Plastic Pail<br>Aggregate Plastic Lined Paper Bags: 24kg, 15kg, 16kg<br>Top Coat Filler 4ltr Plastic Pail |
| Material Shelf Life                                 | 12 months in unopened containers   |
| PPE   | Wear suitable protective respirator and clothing when using this product   |

For full technical specifications visit website [www.nuplexconstruction.com](http://www.nuplexconstruction.com) or contact  
**New Zealand** – Phone: 0508 882288 – email: [ncpsales@nuplex.co.nz](mailto:ncpsales@nuplex.co.nz)  
 or **Australia** – Freecall : 1800 007 322

## HOW TO SPECIFY

|                |   |
|----------------|---|
| Product –      | Nuplex Nuthane (T, SB and MD) as applicable   |
| Finish –       | Matt or Gloss available   |
| Thickness -    | ...mm   |
| Colour -       | ... to be chosen  |
| Preparation -  | Preparatory work and application is accordance with manufacturer's instructions                                       |
| Application -  | Full application specification available upon request<br>Application to be carried out by Nuplex approved applicators |
| Manufacturer – | Nuplex Construction Products<br>ncpsales@nuplex.co.nz   |

## GUARANTEES AND INSTALLATION WARRANTIES

- Nuplex Construction Products provide a material guarantee that is backed by a global company.
- Warranties from 2-10 years are available.
- Products are manufactured to ISO 9001 standards and Nuplex is TELARC registered.
- All installation contractors are trained and skilled in installing Nuplex products and have a good track record for installation.
- In NZ the installation warranty is provided by the Nuplex Contractors Federation, backed by insurance giant QBE which covers defective workmanship.
- In Australia the warranty is provided in partnership with approved applicators.



**www.nuplexconstruction.com**  
**New Zealand** - Phone 0508 88 22 88  
Email: ncpsales@nuplex.co.nz  
**Australia** - Freecall 1800 007 322



**nuplex**<sup>®</sup>  
construction  
products

## About Nuplex Industries

Nuplex Construction Products is the foundation business of the global Nuplex Industries Group. Nuplex has built a reputation for delivering high quality innovative products through its commitment to R&D across its various businesses. We ensure the latest technologies are harnessed to provide the New Zealand and Australian markets with engineered construction products that are durable, and backed by product and installation warranties.