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INTAFLOOR Zero odour floor Topping

DESCRIPTION:

Intafloor ZV is a zero-odour floor topping system specifically designed for seamless flooring applications.

HONED EFFECT: The finished floor is fine chips in a resin surround and gives the appearance of honed concrete. The finish is devoid of pinholes and is dense and non-staining. The “colour of concrete” varies widely from greys to black and yellow tones. This product can imitate that by adjusting the resin colour.

Intafloor ZV is a decorative finish using a coloured resin base and a mixture of coloured aggregates to achieve the effect required. These effects will be based on:

- Colour
- Chip colour
- Chip size and effect.

TYPICAL PHYSICAL PROPERTIES/ FEATURES:

- Intafloor ZV is a durable monolithic floor topping. 3-4mm. It is a hard, not plastic, finish.
- Intafloor is a smooth / flat finished (honed type finish). The aggregate is fully embedded in resin and the surface is non-porous.
- Rapid Cure: Full system may be fully installed within a 2-4hr period. Designed to be a one coat, one pass application so installations may be completed promptly.
- Good abrasion resistance .
- Good impact resistance
- Excellent adhesion to properly prepared substrates.
- Easily cleaned and low stainability. See comments at end.
- Will not support bacteria or fungal growth.
- NO Smell at any stage of application
Zero Volatile Organic Compounds. Zero solvent content.
Cured film is non-toxic. ZV implies zero volatile organic components
- Not moisture permeable.
- Colour: Any colour; dependant on aggregate selection.
Full range of coloured aggregate application. UV stable.

RECOMMENDED USES:

Why use Intafloor:

- Where a sooth floor finish is required; to repair damaged concrete but to have a concrete look.
Where a very fast curing, no-smell, and hard finish floor in any colour is required.
- Supermarket floors Shop floors Retail floors.
- Design floor
- Floor remediation to fix old floors and concrete surfaces.
- Residential Floors Decorative Floors
- Commercial warehouse and display areas.

The ZV technology is a world-leading no odour, ultra low emission flooring resin. This product can be used in habituated places with no odour. There are ultra-low emissions and a user can be very confident of a no-complaint installation.

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INTAFLOOR ZV (cont'd)

Watertightness: Floors above work spaces: Intafloor ZV forms a watertight barrier and is compliant with E3 Internal water 3.1.1e. (use full fibreglass laminated floor and Joint safe tape in these situations).

Limitations:

Application to uncured concrete (minimum recommended cure 28 days). Application to damp surfaces. (Refer to Nuplex Bulletin on application options on wet or uncured concrete).

Application to unstable or defective substrates without approved remedial treatment prior to installation.

Application below +10C.

Over concrete cure or release agents without Nuplex approval.

Over ceramic tiles without specific written Nuplex design specification.

Application and grinding in thicknesses under those specified.

Slip resistance: Special treatments may be required on some ramps in **wet** situations in order to comply with slip resistance requirements of NZ code. Specific advice must be sought from Nuplex.

Substrates

All substrates shall be stable and solid.

Normally the substrate is stable, cured and dried concrete.

Note: The ability of new or existing floors to take the loads as a result of the Nuplex Intafloor ZV must be checked prior to installing. All control joints junction cracks in the substrate etc are to be properly treated.

Nuplex Industries should be consulted when installing Nuplex Intafloor ZV on any suspended floor slabs.

Preparation

CONCRETE

Preparation is achieved by captive shot blasting or other coarse abrasive methods. Eg Diamond grinding.

Concrete shall be cured for a minimum of 28 days prior to laying Intafloor. The moisture content shall be less than 75% RH. (Refer Nuplex Bulletin on application options on wet or uncured concrete).

Ensure the floor is clean, dry and prepared.

Prefill holes, dips etc with the same resin system **only**.

APPLICATION: **Priming:** normally not required: Consult Nuplex for porous or damaged floors. If required, use Intafloor primer applied at 5sqm/mixed lt.

Nuplex Intafloor ZV must be applied in such a manner to achieve a minimum thickness. Use screed box, bars or install angle strips as a guide. Accurately weigh and power mix until homogeneous Nuplex Intafloor ZV Resin and its Hardener systems in the correct proportions:

Resin Mixing: Intafloor primer and or resin)

- Promoter: add 200mls per 20lt of Cobalt solution prior to, but during the same day, as adding catalyst and using the resin.
- Catalyst: use between 1.5% and 2.5% of M100 type catalyst

	Mix ratios
Nuplex Intafloor ZV Resin (with added Cobalt promoter)	4 kg
Mix well with M100 type MEKP catalyst	see above
Then Mix well with Nuplex SZV aggregates	8.4

Note: The Intafloor ZV Resin:Filler ratio varies and are to be blended in an efficient mixer to ensure all ingredients are homogenously blended
Note well: Depending on the visual effect it is most important that the contractor consults with Nuplex for estimation and costings as the resin usage varies strongly.

The activation system also varies on temperature and the hard dry time required. Nuplex have full data.

Apply Nuplex Intafloor ZV flooring to correctly prepared substrate using steel trowels. Ensure the matrix is evenly spread and free of ridges or unevenness. Successive mixes must be homogeneously blended together into wet Intafloor ZV mixes. Access to repair wet floor areas during installation can be achieved using crampons or special spiked shoes. Adequate lighting is to be provided to ensure defective surface finishing can be easily identified and corrected during the installation process. Using a spiked roll, compact the wet resin to remove air and peaks. It may suit to very lightly sprinkle the resin mix with the aggregate blend to cover "wet" areas. (this will result in an even finish). Lubricate tools and equipment used during the installation with sparing quantities of ZV Monomer. Use Acetone only to clean tools and equipment. (use these only outside to ensure no site contamination)

Ensure all finished edges of the Nuplex Intafloor ZV are supported to avoid damage. Optional coves and skirtings can be completed as the main floor is installed however they are best installed following installation of the floor. Floors must be protected during cove/skirting installation.

Joints: All concrete control and construction joints should be carried through the Intafloor ZV using K130 Epoxy for control joints.

Finishing:

When cured, the surface is honed with diamond pads (not plates or cups) moving from 30-40 to 100 grit to 320 to 400 as appropriate. A smooth, honed appearance results.

Nuplex recommend a sealer. This stabilises the colour effect and ensures "first touch" staining or marking is reduced. Nuplex Ultimate is a good finish. This is hard-mopped not brushed or rolled. It is a very thin spread rate. Refer to the photo at the document end for the visual effects of sealing.

The level of "gloss" is dependant on the polish type and number of coats. Aquaclear dried and buffed is a recommended sealer.

Intafloor may be used un-ground, ie just as trowelled.

Maintenance: cleaning, mopping, buffing and polish as for concrete floors.

QUALITY ASSURANCE: A log shall be kept by the licensed Nuplex Intafloor ZV contractor and made available to Nuplex Industries Ltd at their request. Information to be recorded daily is:

1. Material batch numbers used.
2. Sequence of mixing, ratios and quantities and formula.
3. Substrate moisture content.
4. Substrate temperature.
5. Ambient temperature.
6. Ambient relative humidity.

THINNING cleanup:

Do not thin. Lubricate tools with special diluent. Cleanup with acetone (outside only).

CURE AND DRY TIMES:

(25°C 50% RH)

Workable pot life:	15-30 minutes
Hard Dry:	2-5 hours depending on activation required.
Light foot traffic:	2-5 hours

HEALTH & SFETY: Overalls are recommended when using this product. Wear gloves if this suits the user as the material will bond strongly to skin. It has not been found to be dermatitis causing.

SHELF LIFE: 6 months in unopened containers. After this period suitability for use should be checked in consultation with Nuplex Industries Ltd.

Complementary Materials:

Formwall PVC hygienic cladding.

Fibreclene smooth wall lining material to meet Intafloor ZV above coving..

Nuplex coloured aggregates and colorants to provide coloured floors.

Maintenance and Cleaning

Intafloor should be cleaned in the same way as commercial shop-floor concrete.

Aquaclear may be used for re-applying a polish.

Repairs can be undertaken with further new Intafloor ZV applied directly .

