

# Technical Data Sheet

## Duracryl HSV - Acrylic Vinyl Adhesive



### DESCRIPTION:

Duracryl HSV is 100% acrylic adhesive designed to give a strong, water-resistant bond when used to install vinyl sheet flooring to on-grade concrete, timber and composite-board.

### TYPICAL FEATURES | BENEFITS:

- Duracryl HSV is recommended for all vinyl types.
- Duracryl HSV has high tack properties so that peaking or bubbles are minimised.
- Extensive testing of Duracryl HSV has shown that it has extremely good plasticiser resistance and non-staining properties
- Duracryl HSV adhesive is based on an acrylic emulsion that “crosslinks” or bonds to the vinyl. This action develops an extremely strong bond that makes Duracryl HSV a top adhesive performer.

### PERFORMANCE DATA:

Element	Value
Minimum Application Temperature:	~ Air ~ Floor +10°C <i>Never apply adhesive when floor temperature is 5°C or less.</i> +5°C <i>Tack off time will be very slow if floor temperature is 5-10°C</i>
Maximum operating temperature:	+60°C
Flash Point:	NA – Water-based
Adhesion Properties to correctly prepared surface:	~ Concrete ~ Timbers Excellent Excellent
Appearance:	White Thix'd Liquid
Type:	Single stick trowelable paste
Base:	Pure acrylic   water borne   Low VOC
Adhesive Solids:	70%
SG kg/litre:	1.15 – 1.2
Colour:	Off White
Thinning:	Do Not thin
Coverage:	5 – 6m <sup>2</sup> /litre <i>This will depend on trowel, floor finish and porosity.</i>
Pot Life (Usable Life) <i>Pot life is based on 100 gram samples.</i>	+25°C –50%RH 20 – 30 minutes <i>Dependent upon atmospheric conditions, air movement, air temperature and the porosity of the substrate.</i>
Cure Time:	+25°C –50%RH 24 hours - <i>Best after 48 hours</i>
Clean Up:	Wash hands with warm soapy water after any skin contact. Solvent HA for tools.
Dangerous Goods Class:	NA - Waterborne
Packaging:	15 litre Plastic Pail
Shelf life:	12 months from date of manufacture when stored in an unopened container at 5 – 30°C <b>**Must not Freeze**</b> <i>After this period consult with allnex.</i>

### RECOMMENDED USES:

- Commercial Vinyl.
- Vinyl Tiles.
- Residential Vinyl.
- Vinyl Planks – *allnex's preferred adhesive for these applications.*

### NOT RECOMMENDED:

- Application uncured concrete (minimum cure 28 days).
- Application to Wet or Damp substrates.
- Should not be used for exterior applications.
- Application to unstable substrates.
- For bonding untested materials.

## SUBSTRATE PREPARATION:

### Concrete

- The substrate must be sound, smooth, dry and clean.
- Remove any dirt, wax, loose paint, existing adhesives, concrete sealers, curing and parting agents, and all other foreign matter that would interfere with a good bond.
- Do not use on substrates that have been chemically cleaned.
- Check that new concrete and floor levelling compounds have been allowed to dry sufficiently.
- Check that an effective damp-proof membrane is installed in the concrete. *Refer NZFMC Manual 5002.*
- Use Duracryl HSV on concrete substrates with in-situ Relative Humidity per the latest version of *ASTM\* F2170 up to 80% RH and with surface pH from 7 - 9.*

*\*ASTM International, formerly known as the American Society for Testing and Materials: [www.astm.org](http://www.astm.org)*

### Wet or Damp Concrete Floors

- If in doubt about potential wet or damp floors, seal with Aquakem (*Aquaguard 101*) before proceeding.  
*Refer: Aquakem technical literature.*

### Porous Substrates

- Very Porous floors should be sealed with a suitable sealer, "allnex Duraseal"

### Timber and Composite Board

- The surface must be dry, clean and sanded lightly.
- Very porous floors should be sealed with a suitable sealer; "allnex Duraseal."
- Flooring grade particle board must be adequately weathered before application of adhesive.

### Floor levelling

- Levelling of floors may be done with allnex FLC compounds (*See list below*) or seek advice from allnex Construction Products technical team.

## APPLICATION METHOD:

- Ensure the floor is well prepared.
- Only use adhesive in good drying/setting conditions.
- Site conditions and substrate preparations must comply with those as described per current AS/NZS 2455 guidelines for Sheet Vinyl and Vinyl Plank installation.
- The installation site must be acclimated with HVAC in operation.
- The floor and room temperature, as well as flooring materials and adhesive, must be maintained at 10° - 35° C,
- Relative Humidity between 30% and 75% for 48 hours prior to, during, and after the testing and installation.

### Sheet Vinyl

- Follow floor-covering manufacturer's installation instructions and proper adhesive application rate.
- Lay into adhesive the wet adhesive and roll with an Intafloors IF7275 75lbs. or Intafloors IF72100 100 lbs. roller.
- Full adhesive properties are developed once the adhesive has cured.

### Vinyl Planks

- Follow covering manufacturer's installation instructions and proper adhesive application rate.
- Lay into adhesive the wet adhesive and roll with an Intafloors IF7275 75lbs. or Intafloors IF72100 100 lbs. roller.
- Full adhesive properties are developed once the adhesive has cured.

### Notch trowel :

Notch Type	Notch Size	Trowel Usage
Versablade 680 -FFA	U Notch (Inch) 1/32 x 1/16 x 1/32	Very fine spread of adhesive - Vinyl
Versablade 680 -ACT	V Notch (Inch) 1/16 x 1/16 x 1/16	Higher spread of adhesive - Vinyl



### CAUTION:

*Do not return unused product from the floor surface to the pail. This will contaminate the pail. Replace lid securely when finished.*

### HEALTH & SAFETY: Refer safety data sheets (SDS).

- Wear gloves wherever possible.
- Wash hands with warm, soapy water after any skin contact.
- Re-seal all containers tightly.

**ADHESIVE RANGE:****Solvent-based**

Product	Type	Colour	Application Method	Installation Type
CB103	Brushable Contact	Straw	Brush   Roller	Various – Refer Technical Literature
CS110	Sprayable Contact	Straw	Brush   Roller   Spray	Various – Refer Technical Literature
CS107	Sprayable Contact	Red	Brush   Roller   Spray	Various – Refer Technical Literature
Quicktack	Trowel Grade	Cream	Trowel	Garage & Outdoor Carpet

**Water-based**

Product	Type	Colour	Application Method	Installation Type
Duracryl HSV	Acrylic	Off-white	Trowel	Vinyl – all types   Vinyl Planks* <sup>1</sup>
Supacryl	Acrylic - Zero VOC	White	Trowel	Vinyl – all types   Vinyl Planks
Truestik VA1	Acrylic - Zero VOC	Off-white	Trowel	Vinyl – all types   Vinyl Planks
Supatack T9 -Gen 2	Acrylic	Off-white	Trowel	Vinyl – all types   Vinyl Planks
Goldstix	Latex-based	Off-white	Trowel	Carpet
RMA 2000 CTA	Acrylic	Pink	Trowel   Roller	Carpet Tiles   Polystyrene
Super 7	Acrylic	Off-white	Trowel	Rigid Vinyl Tiles   Direct Stick Carpet   Underlay

**Epoxy | Polyurethane**

Product	Type	Colour	Application Method	Installation Type
NPU	2-part Polyurethane	Beige	Trowel	Various – Refer Technical Literature
Truestik EA	2-part Epoxy	Green	Trowel	Various – Refer Technical Literature* <sup>2</sup>

\*<sup>1</sup> Recommended adhesive for vinyl plank\*<sup>2</sup> Recommended adhesive for vinyl planks in areas exposed to solar heat gain.**FLOOR LEVELLING COMPOUND RANGE:****Patch Repairs**

Product	Application Thickness	Mix Additive	Application Area	Use
Supaset	1 - 100mm in single application	Water	Interior	Rapid Set
Hardfast (White Patch)	0 - 20mm in a single application	Water	Interior	Divots   Isolated patching only

**Bulk Fill**

Product	Application Thickness	Mix Additive	Application Area	Use
Screed 20 +	5 - 100mm in single application	Water	Interior	Heavy Duty   Bulk Fills - Ramps
Supaset	1 - 100mm in single application	Water	Interior	Rapid Set   Shower Falls
Unifloor	1 - 100mm in single application	Water	Interior   Exterior	Economy   Bulk Fills - Ramps

**Two-Part Screed**

Product	Application Thickness	Mix Additive	Application Area	Use
Durabond Superfine	0 - 5mm in a single application	Latex Emulsion	Interior	General Purpose - Fine Finish
Matrix	0 - 3mm in a single application	Latex Emulsion	Interior	General Purpose - Fine Finish

**Self-Levelling**

Product	Application Thickness	Mix Additive	Application Area	Use
Pourite SLC	1.5 - 10mm in single application	Water	Interior	Self-Levelling Installations
Pourite Max	5 - 30mm in single application	Water	Interior	Self-Levelling Installations

**Fine Feather Finish**

Product	Application Thickness	Mix Additive	Application Area	Use
Mastertop 505	Very fine finishing	Water	Interior	Fine Smoothing of floors
Flawfix	Very fine finishing	Water	Interior	Fine Smoothing of floors

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