Always use correct Personal Protective Equipment

HYPERSHIELD 421

DESCRIPTION

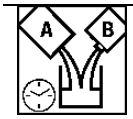
Hypershield 421 is a unique, highly flexible, acrylic-urethane clear coating which has been designed for application over flexible and rigid substrates. It is ideal on signage applications to provide increased protection to paint, inks, digital print, graphics, transport vinyl curtaining and other flexible plastics.

Hypershield 421 cures to a hard yet very flexible finish, which is easy to clean and has excellent chemical, mar and U.V. resistance.

Hypershield has been manufactured in NZ for over 30 years by Resene, with a long and successful track record of use.

Key benefits

- Flexible UV protection after signwriting on various rigid and flexible substrates
- Flexible UV protection on unpainted and painted/digitally printed vinyl curtains
- Increases lifespan of coloured vinyl/graphics including digital printed substrates
- Reduces dirt pick up and UV damage/colour change on substrates like flexible PVC covers on spa pools etc.
- Excellent anti-graffiti properties



MIXING

Signage:

4 part Hypershield 421 Part A
1 part Hypershield 421 Reducer

Transport Vinyl Curtains:

5 part Hypershield 421 Part A
1 part Hypershield 421 Reducer

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PROPERTIES

Product Type:	Acrylic/Urethane	
Colour:	Clear	
Pot Life:	Up to 2 hours, relative humidity should be above 50% and not exceed 80%.	
Induction Time:	N/A	
Application equipment:	Compliant / Conventional suction and gravity feed guns.	
	Signage:	**Transport Vinyl Curtains:**
Recommended DFT:	12.5 microns/coat	15 microns / coat
Recommended WFT:	50 microns per coat	60 microns per coat
Theoretical Coverage:	20 m2/L/coat*	16m2/L/coat*
	* Theoretical coverage rates may be affected by transfer efficiency of Hypershield 421 though different spray equipment and overspray that is lost.	
Number of coats	1-2	Generally 2
Volume Solids:	25%	
VOC:	662g/L mixed	
Recoat-ability:	Up to 1 hour (depending on relative humidity of atmosphere)	
Durability:	Excellent	
UV resistance:	Very Good	
Gloss Level:	Very Good	
Levelling:	Excellent	
Vertical Holdup:	Very good	

APPLICATION

Substrates

Hypershield 421 has been successfully used on vinyl curtain siding and on a variety of sign company applications:

- Various rigid and flexible substrates
- Unpainted and painted/digitally printed vinyl curtains
- Coloured vinyl/graphics including digital printed substrates
- Flexible PVC covers on spa pools etc.

Surface Preparation

Thoroughly clean with Resene C-Power diluted 1:20 with clean water or Resene EcoWash diluted 1:20 with clean water. Once dry use IPA, changing lint free cloths frequently using the wipe on wipe off method, to avoid contamination.

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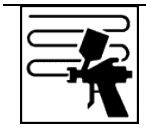
Spray Equipment

Compliant / Conventional suction and gravity feed guns.	
Tip Size:	1.3 – 1.5
Spray Pressure:	2 – 2.5 Bar / 29 – 36 PSI

Note:

1) When spraying, use the correct gun set up as recommended by your equipment supplier.
2) Application techniques should be adjusted as necessary to achieve the recommended dry film thickness. It is good practice to check this process on a small sample prior taking on a large project.
3) All spray setups are recommended starting points and may need adjustments to suit the equipment and conditions.



DIRECTIONS FOR USE

Mixing:	Mix Hypershield 421 (Part A) with Hypershield 421 Reducer (Part B) at correct mix ratio 4:1 or 5:1 and stir thoroughly.
Thinning:	Only use Hypershield 421 Reducer as this reducer carries the catalyst for curing product.
Application Environment:	Apply in a well-ventilated spray booth environment. This product contains an isocyanate additive to cross-link and must only be applied by a professional applicator with correct PPE.
Application Method:	Always check test area for drying, appearance, adhesion and flexibility before full application. A test area is required to check compatibility of Hypershield to the substrate and inks used. Apply one medium wet closed coat followed by one full wet closed coat after 10 –15 minutes flash time..
Dry Time @ 20°C and 60% Rh	Touch Dry: 1 to 3 hours Dry to tape: Allow overnight cure Curing: Allow overnight cure minimum and allow to hang 24hrs. If temperature is to drop below 15°C, allow to hang for 48 hrs before folding or fitting. Full cure test with MEK solvent.
No. of Coats:	2
Clean up:	General Purpose Thinner

Hypershield 421 should not be applied when ambient temperatures is less than 10°C, or when temperature is likely to fall to less than 10°C for more than two hours within the first twelve hours after clear coat application.

FINISH

Hypershield 421 once properly cured will dry with a waxy/hazy fog appearance on the surface. This can be removed easily with water wash. This fog appearance is an indication of curing.
An MEK Solvent test can be conducted after 24 hours to test full cure.
Cured Hypershield 421 will not soften with the Solvent test but bead away on the surface.

Storage/shipping of coated substrates:

Finished products should not be left rolled up or have items stacked on top of them. Ensure all freight is top stow.

HEALTH & SAFETY

ALWAYS READ THE SAFETY DATY SHEET (SDS) PRIOR TO USE.
Observe the precautionary notices displayed on the container.

- Mixed product contains isocyanates; splashes to eyes will cause irritation.
- Contact with skin may cause irritation and inhalation of vapours or dust from sanding may cause respiratory sensitisation.
- Applicators must wear protective clothing and suitable respiratory equipment.
- Product is flammable, use and store away from heat and ignition sources.

Transport & Storage

Sizes:	1L, 4L, 20L

Dangerous Goods:

UN:	1263
Hazchem:	3YE
Packing Group:	II
Shipment name:	Paint Related Material
Flash point:	6-8C