



Pro~Seal[®]

Intumescent Seal Coat & Cure Promoter

Data Sheet

FEATURES

Advantages:

- Modified polyester with both flexibility and reinforcing within the film.
- Rapid Dry – dust free typically within 30 minutes
- Extended time to finish coat. May be left through the entire construction phase for finish coating (with suitable preparation) at project completion.
- Easy to use – single component coating
- Brush, roller or spray application
- Excellent resistance to solvents (once cured) permitting application of a wide range of two component polyurethanes for both interior and exterior exposure.
- Cures well at low temperatures
- Promotes the cure of the intumescent coating, thus ensuring cure can be achieved with minimal risk of moisture damage
- May be finish coated with a wide range of solvent borne or water borne finish coats.

RECOMMENDED USES

Pro~Seal[®] Intumescent Seal Coat is a single component coating designed for use as part of a single pack, solvent borne Intumescent coating system.

Pro~Seal[®] is applied to the cured Intumescent coating to protect it from moisture ingress, so that steel may be stored outside with enhanced weathering properties.

Pro~Seal[®] also provides a tie coating between the intumescent and subsequent finish coats. It prevents solvents from re-entering the intumescent film.

Pro~Seal[®], correctly applied to adequately cured intumescent, allows residual solvents, retained within the intumescent to transpire through the film. Full cure – hardness at Shore D-50, may then be achieved.

Pro~Seal[®] is the first Intumescent seal coat that significantly reduces those risks so commonly associated with single pack, solvent borne intumescent coatings:

- Solvent entrapment & resulting blistering
- Rain damage
- Solvent softening from finish coats
- Finish coat incompatibility

SPECIFICATION DATA

Coating Type:	Modified Polyester (flexibilised and reinforced)
Colour:	Grey
Packaging:	10 litre single component
Mix Ratio:	N/a
Gloss:	Low Sheen to matt
Flash Point:	27°C Setaflash
Thinner:	
Brush/Roller:	Altex Thinning Solvent #45
Spray:	Altex Thinning Solvent #53
Pot Life:	N/a
Induction Time:	Not required
Shelf Life:	2 years
Storage:	Store under cool, dry conditions

Density:	1.15 kg per litre
VOC:	433 grams per mixed litre
Temperature Resistance:	80°C Dry
Volume Solids (Mixed):	46%
Theoretical Coverage Rate:	9.2 sq metres per litre at 50 microns dry
Recommended Film Thickness Per Coat:	108 microns wet to obtain 50 microns dry
Application:	Spray, brush or roller
Dry Times (25°C / 50µm DFT / 50% RH):	
Touch Dry	- 30-45 mins
Hard Dry	- 24 hours
Overcoat Min	
Self	- 2 hours
PUR	- 24 hours
Alkyd	- 4 hours
Acrylic	- 8 hours
Recoat Max	
Self	- 6 months
PUR/Alkyd	- 3 months
Acrylic	- 1 month

SURFACE PREPARATION

All surfaces must be clean, and free of oil, grease, dirt, moisture and other foreign substances prior to application of Pro~Seal®.

Solvent Borne Intumescent Coatings:

The surface must be cured adequately to permit Dry Film Build readings to be taken without the probe penetrating into the film.

If probe marks are made during the inspection process, then additional day/s of cure will be required to allow solvent removal and to facilitate accurate readings. Ensure good ventilation to encourage faster cure.

For architectural finishes, the intumescent coating may be lightly sanded to improve the overall surface – denibbing areas of excess build, and removal of inclusions.

Pro~Seal® should not be applied unless all remedial work is completed, and no further intumescent coating is to be applied.

Once DFT inspections are completed, and the DFT reading meet the requirements of the Fire Rating Schedule, Pro~Seal® may then be applied.

Apply by brush and roller, or via spray application. Rolling may require a second, wet-on-wet application to ensure a full, even coat is applied.

Do not apply finish coats until the intumescent coating and Pro~Seal seal coat have reached a Shore D50 hardness reading.

DIRECTIONS FOR USE

Mixing:

Pro~Seal® is a single component product that only requires thorough stirring to obtain a smooth, homogeneous condition (power stirring is recommended) before use.

After mixing is completed, thinning may be required to facilitate application.

Application:

Pro~Seal® may be applied by conventional spray, brush and roller.

Thinning:

Thinning is generally required.

Thin 5 - 10% by volume with Altex Thinning Solvent #45 for brush and roller application.

Depending on the spray set up used, thinning up to 15% with Altex Thinning Solvent #53 may be required.

Suggested spray equipment:

Conventional Air Spray

1.4mm to 1.8mm Fluid tip with appropriate air cap

(Note : Other equipment equivalent to the above may be used.)

Clean-up:

Use Altex Thinning Solvent #45, #53 or #10.

PRECAUTIONS

For Professional use only. See the Altex Coatings Limited General Safety Data Sheet, product label and Safety Data Sheet (SDS) for health and safety information prior to use.

Pro~Seal® is flammable. Keep away from heat, sparks and open flame. Use with adequate ventilation. May cause eye and skin irritation. Do not breathe vapour or spray. Wear suitable protective clothing such as gloves and eye and face protection.

WWW.ALTEXCOATINGS.COM

Head Office New Zealand Altex Coatings Ltd

91-111 Oropi Road
Greerton, Tauranga 3112

Ph : +64 7 541 1221
Fax : +64 7 541 1310

Head Office Australia Resene Paints (Aust) Ltd Industrial & Marine Division

7 Production Avenue, Molendinar
Queensland 4214

Ph : +61 7 5512 600
Fax : +61 7 5512 697

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