

SELECTION & SPECIFICATION DATA

Generic Type | Modified polyester (flexibilised and reinforced)

Description | A single pack sealer designed for use as part of an approved Altex Coatings Ltd single pack, solvent borne intumescent coating system. It is applied to cured approved intumescent coatings to protect it from moisture ingress, so that steel may be stored outside with enhanced weathering properties.
It can minimise solvents in the subsequent finish coats from re-entering the approved intumescent film.
When correctly applied to partially cured approved intumescent, Pro~Seal™ allows residual solvents, retained within the approved intumescent to transpire through the film. Full cure (hardness at Shore D-50) may then be achieved for the intumescent film.

Pro~Seal™ is the first intumescent seal coat that significantly reduces those risks that can be encountered with approved single pack, solvent borne intumescent coatings:

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

- Features**
- 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 approved 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.

Colour | Light grey

Finish | Flat

Dry Film Thickness | 50 microns dry

Solids Content | By volume 46% ± 1%

Theoretical Coverage Rate | 9.2 m²/litre at 50 microns
Allow for loss in mixing and application.

VOC Values | **As Supplied** : 432 g/L

SUBSTRATES & SURFACE PREPARATION

General | All approved intumescent surfaces must be sound and free of oil, grease, dirt, loose and flaking paint, moisture, and other foreign substances prior to application of Pro~Seal™.
Lightly clean and/or degrease with Altex Thinning Solvent #10. Do not allow excess solvent to remain on the coated surface.

SUBSTRATES & SURFACE PREPARATION

Intumescent Coated Surfaces	<p>The surface must be cured adequately to permit dry film thickness (DFT) 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.</p> <p>For architectural finishes, the approved intumescent coating may be lightly sanded to improve the overall surface – de-nibbing areas of excess build, and removal of inclusions.</p> <p>Once DFT inspections are complete, and the DFT readings meet the requirements of the Fire Rating Schedule, Pro~Seal™ may then be applied.</p> <p><u>Pro~Seal™ should not be applied unless all remedial work is completed, and no further intumescent coating is to be applied.</u></p>
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MIXING & THINNING

Mixing	Stir thoroughly to ensure a homogeneous condition.
Thinning	<p>If conditions warrant it, the addition of up to 10% v/v Altex Thinning Solvent #45 (brush/roller application), or up to 15% v/v Altex Thinning Solvent #53 (spray) will enhance application properties.</p> <p>Note: Excessive thinning can cause low film thickness, sagging and other film defects.</p> <p>Use of thinners other than those supplied or recommended by Altex Coatings may adversely affect product performance and void product warranty, whether expressed or implied.</p>
Ratio	N/A – single component coating
Pot Life	N/A

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General)	Pro~Seal™ should be applied in one wet coat, overlapping each pass 50%. The following spray equipment has been found suitable.						
Conventional Spray	<p>1.4mm to 1.8mm fluid tip with appropriate air cap.</p> <p>Note: Use the lowest air pressure that will achieve good atomisation to minimise overspray.</p>						
Airless Spray	<table border="0" style="width: 100%;"> <tr> <td style="padding-right: 20px;">Pump Ratio</td> <td>30:1</td> </tr> <tr> <td>Material Hose</td> <td>3/8" I.D min</td> </tr> <tr> <td>Tip Size</td> <td>0.015 – 0.019</td> </tr> </table> <p>(Note: The above is a guide. Other equipment to the above may be used.)</p>	Pump Ratio	30:1	Material Hose	3/8" I.D min	Tip Size	0.015 – 0.019
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Material Hose	3/8" I.D min						
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Brush & Roller (General)	Brush and roller application are acceptable if conditions are suitable. however, care must be taken to ensure the correct film build is applied.						
Roller	Rolling may require a second, wet-on-wet application to ensure a full, even coat is applied. It is critical to ensure that a full, wet coat is applied. Once cured, a roughly textured film indicates insufficient coating has been applied. A smooth surface indicates that sufficient coating has been applied to seal the approved intumescent coat.						

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C	10°C	10°C	0%
Maximum	32°C	37°C	35°C	85%
Optimum	16-24°C	16-24°C	16-24°C	30-70%

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Topcoat	Dry to Touch
10°C	Overnight	**	2-3 Hours
15°C	6-7 Hours	**	1 Hour
24°C	4-5 Hours	**	35 Minutes

Curing schedule based on 50 microns dry

Maximum overcoat: Will depend on the finish coat nominated. Up to 90 days is acceptable after a light sand (220-240 grit) prior to applying the finish coat.

** Irrespective of the generic type of finish coat specified, DO NOT apply finish coats until the approved intumescent AND Pro~Seal™ coats have reached a Shore D50 hardness reading.

CLEANUP & SAFETY

Cleanup | Use Altex Thinning Solvent #45 or #53

Safety | For industrial use only: Read and follow all the caution statements on this Product Data Sheet, the product label, and the Safety Data Sheet (SDS) for health and safety information prior to use.

Ventilation | It is very important for the safety of the applicator and the proper performance of Pro~Seal™ that good ventilation be provided to all portions of the enclosed area. It is equally important to bring into the enclosed area dry fresh air to remove all solvent vapours. Since solvent vapours are heavier than air, ventilation ducts should reach to the lowest portions of the enclosed areas as well as into any structural pockets. Ventilation should be provided throughout the cure period to ensure all the solvents are removed from the coating.

PACKAGING, HANDLING & STORAGE

Shelf Life | 48 months at 24°C

Shelf Life | Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers. For products/components exceeding the stated shelf life, contact Technical Services for further advice.

Shipping Weight (Approximate) | 10L - 15 kg

Storage Temperature & Humidity | Optimum: 15-20°C

Flash Point (Setaflash) | 36°C

Storage | Store under cool, dry conditions.
Avoid large fluctuations between high and low temperatures.
Avoid the formation of condensate due to low temperatures.

WARRANTY

DISCLAIMER

The information in this datasheet is provided as a guide only and is provided without warranty, implied or otherwise. It is your responsibility to determine the suitability of any information or product for the use contemplated. Conditions of use, application and the substrate are beyond our control so no liability whatsoever (whether as to coverage, performance, injury or otherwise) is accepted for the information contained herein.

Data sheets may change from time to time and it is your responsibility to ensure you have the latest product datasheet and material safety data sheet from your supplier. Check the data sheet date with the listings at www.altexcoatings.com Altex Terms and Conditions of Trade, available at www.altexcoatings.com, apply in respect of all coating products and materials supplied, including samples.