

SELECTION & SPECIFICATION DATA

Generic Type	Two component 100% Solids Phenalkamine Epoxy
Description	<p>Altra~Lock[®] 576 is a rapid dry/quick cure 100% solids penetrating epoxy sealer. It has a very low viscosity which allows it to wick into and bond porous substrates and residual rust into a tough epoxy composite.</p> <p>Altra~Lock[®] 576 may be applied to a wide variety of substrates such as:</p> <p><i>Residual rust</i> <i>Degraded or new concrete</i> <i>Fibre reinforced cement</i> <i>Asbestos cement</i> <i>Timbers</i></p>
Features	<ul style="list-style-type: none"> • 100% solids penetrating sealer • Low viscosity throughout its pot life (see note below) • Rapid cure - even at temperatures as low as 4°C • Easy application by brush, roller or low atomisation spray
Colour	Clear mid to dark amber
Finish	matt
Dry Film Thickness	40 microns
Solids Content	100%
Theoretical Coverage Rate	25 sq metres per litre at 40 microns dry. (Actual spreading rate will vary with the substrate porosity)
VOC Values	517 gms/ltr
Top Coats	May be over coated with a wide range of coatings including chlorinated rubber, epoxy, vinyl acrylic and polyurethane.

SUBSTRATES & SURFACE PREPARATION

General	<p>All surfaces must be sound and free of oil, grease, dirt, loose and flaking paint or corrosion products, moisture and other foreign substances prior to application of Altra~Lock[®] 576.</p> <p>Clean and/or degrease with either a suitable non-ionic detergent, (such as Altex P40 Cleaner), or solvent wipe with Altex C50 Surface Cleaner.</p>
Steel	<p>For optimum results, aged and porous mild steel should be abrasive blasted to between SSPC SP6 and near white metal equivalent to SSPC SP-10 (AS1627.4, Class 2½). A surface profile between 35 and 75 microns is required.</p> <p>Power tool cleaning to SSPC SP3 (AS1627.2) will provide a suitable surface for coating in moderate, non-immersed environments. Handtool Cleaning may also assist in achieving a coatable surface.</p>

Altra~Lock[®] 576

Rapid Cure Epoxy Sealer

PRODUCT DATA SHEET



Concrete | Degrease with a suitable non-ionic detergent, (such as Altex P40 Prepainting Cleaner).
Grinding is the most suitable means of preparation, as this promotes rapid penetration of the coating into the substrate. This will also ensure a surface profile similar in texture to 80 grit sandpaper is achieved.

Altra~Lock[®] 576 is designed for use where less than ideal surface preparation is attainable or where surfaces have inherent porosity or surface weakness. Where conditions dictate minimal surface preparation, clean and/or degrease with Altex P40 Cleaner followed by high volume, low pressure watercleaning to remove all traces of P40 and detritus.

MIXING & THINNING

Mixing | Stir to ensure a homogeneous condition.

Thinning | This product is supplied at application consistency and should not be thinned.

Ratio | 1 to 1 by volume

Pot Life | Altra~Lock[®] 576 is highly reactive and has a short pot life of 90 minutes at 20°C. Unless large areas are to be covered in a short period of time only small amounts should be mixed at once.
This product will exotherm, with a 2 litre mix temperature rising to 47°C over 90 minutes (ambient 20°C). Material should be disposed of and equipment flushed out as soon as the temperature reaches 50°C.
It is recommended that no more than 1 litre of mixed material is made up at any one time.

APPLICATION EQUIPMENT GUIDLINES

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) | Altra~Lock[®] 576 can be applied by brush, roller and conventional spray equipment.
To minimise overspray, use low air pressure and pot pressure - 5 to 10 psi.
Altra~Lock[®] 576 is low in viscosity. It should be applied in one thin wet coat, sufficient to completely cover and penetrate the surface. Do not apply in heavy coats. Remove excess product, drips or puddles with clean rags.

Conventional Spray | 1.0mm to 1.4mm Fluid tip with appropriate air cap.

Airless Spray | Not recommended

Brush/Roller | May be brush and/or rolled, however, care must be taken to ensure the correct film build is applied.

Application conditions

Condition	Material	Surface	Ambient	Humidity
Minimum	5°C	2°C	2°C	0%
Maximum	<30°C	<30°C	<30°C	85%
Optimum	16-24°C	16-24°C	16-24°C	30-70%

Altra~Lock 576 is designed for cool temperature application. Applying in hot weather will reduce the wicking & penetrative properties of the coating. Note also the Pot Life limitations.

CURING SCHEDULE

Surface Temp & 50%RH	Dry to Handle	Dry to Topcoat	Dry to Touch
5°C	16 hrs	36 hrs	12 hrs
10°C	12 hrs	24 hrs	8 hrs
24°C	6 hrs	12 hrs	4 hrs

CLEAN UP & SAFETY

Clean Up | Thinning Solvent #12

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 Altra~Lock[®]576 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 vapours. Although solvent free, ventilation ducts should be used and 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 fumes are removed from the environment.

PACKAGING, HANDLING & STORAGE

Shelf Life | 12 months

Shipping Weight (Approximate) | 1.05kg/litre
4.20kg/4 litre

Storage Temperature & Humidity | Avoid large fluctuations between high and low temperatures. Optimum 15-20°C.
Avoid the formation of condensate due to low temperatures.

Flash Point (Setaflash) | 12°C Setaflash

Storage | Store under cool, dry conditions

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.

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