



Interdens® by athmer

Intumescent hardware protection kits

Interdens® is a multi-purpose intumescent material made from mono ammonium phosphate that enhances the thermal insulation and fire resistance of timber and timber-based materials. When exposed to fire Interdens® provides a pressureless expansion, growing to a multiple of its original volume and forming a highly heat-insulating foam layer. Joints, cavities and other openings are sealed, preventing or delaying the spread of flames and fumes effectively. Timber nearby to the heat-insulating foam layer will effectively be protected from the impact of fire and heat.

In relation to fire rated doors and door hardware, Interdens® can be used to protect weaknesses created during the door processing phase. Removal of core fire door material and the introduction of door hardware with a higher thermal conductivity are both factors that can lead to early fire door failure. Having been included in hundreds of fire door tests globally, Interdens® is proven to provide fire resistance performances up to 120 minutes when tested in accordance with BS 476-22 & EN 1634-1.

athmer can provide Interdens® in sheet form or as an added service, precut to suit specific ironmongery. Our in-house team can work with you to create precut shapes that align with your fire test evidence and ironmongery requirements. athmer supplies Interdens® in white and with a self-adhesive backing as standard.

Applications:

Interdens® can be used in a variety of fire door applications to protect hardware. Bespoke pre-cut kits can be used to protect butt hinges, concealed hinges, mortice locks, concealed door closers, automatic drop seals, flush bolts, door viewers, etc.

These protection kits can provide fire resistance of 30, 60, 90 or 120 minutes when tested with full size door assemblies and tested in accordance with BS 476-Part 20 & 22 and BS EN 1634-1.

Drop Seals

- / precut kits to suit all common auto drop seal sizes
- / std. sizes (mm): 14 x 35, 15 x 30, 20 x 30
 - other sizes available on request
- / Supplied as 1 part wrap around kit around mortise drop down seal with full self adhesive tape back.
- / thickness: 1 mm (type 15) & 2 mm (type 36)

Flush bolts

- / precut kits to suit all common flush bolts
- / std sizes (mm): to suit 200 x 19, 200 x 25, 300 x 25
 - other sizes available on request
- / special kits available for manual rod extension flush bolts as well as automatic flush bolts.
- / supplied as full wrap around kit to suit flush bolt/ door cutout with full self adhesive tape back
- / thickness: 1 mm (type 15) & 2 mm (type 36)

Locks - single & multi-point

- / precut kits to suit all types of lock bodies
- / DIN55/72, DIN60/72, DIN80/72 etc.
- / bespoke kits can be supplied for electrified locks, hotel guest room card locks, multipoint locks, budget locks etc.
- / supplied as full wrap around kit around lock body as well as under strike plate with full self adhesive tape back
- / thickness: 1 mm (Type 15) & 2 mm (Type 36)



Hinges - standard, concealed & continuous

Precut kits for

- / butt hinges (radius and square edges)
 - sizes (mm): 102 x 76, 102 x 89, 102 x 102, 114 x 102, 114 x 114
- / concealed Hinges: Simonswerk/Tectus TE-340, TE-527, TE540 & TE-0640
- / bespoke kits to suit special application hinges, continuous hinges, pivots, floor spring accessories etc available on request
- / thickness: 1 mm (type 15) & 2 mm (type 36)

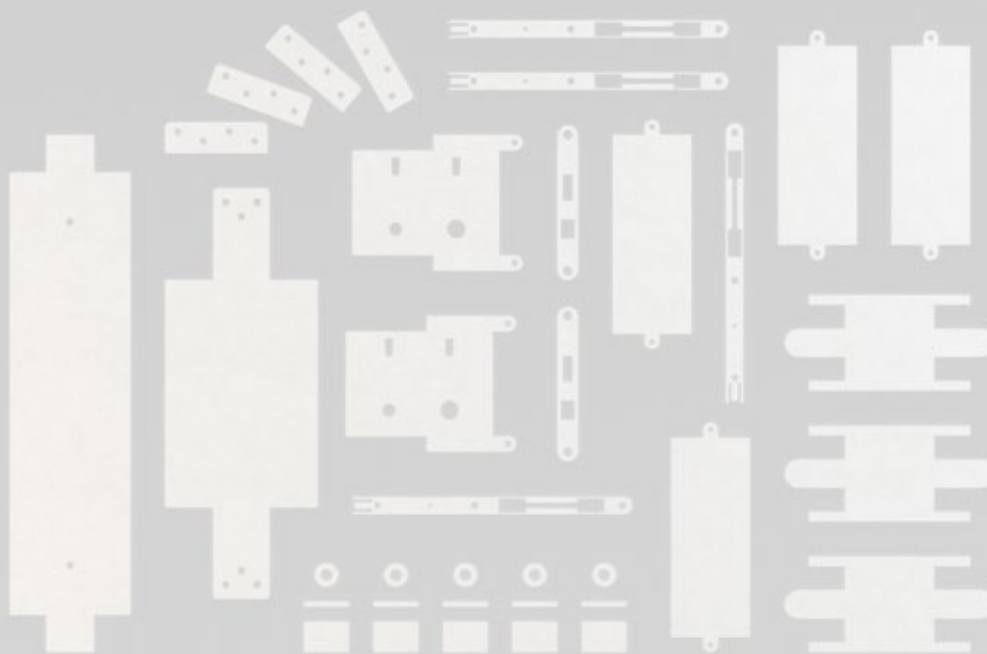
Concealed door closers

- / precut kits for all concealed door closers models
- / size 1 ~ 3, size 2 ~ 4, size 2 ~ 5 & size 3 ~ 6
- / supplied as 2 or 3 part wrap around kit around door closer body as well as top channel with full self adhesive tape back
- / special kits for electromagnetic hold open closers with longer track arms available on request
- / thickness: 1 mm (type 15) & 2 mm (type 36)

Door viewers

- / bespoke kits for all common door viewers
- / precut and scored kits supplied to wrap around the barrel with full self adhesive tape back
- / thickness: 1 mm (type 15) & 2 mm (type 36)





	Interdens® Type 5	Interdens® Type 15	Interdens® Type 36
Chemical basis	phosphate	phosphate	phosphate
Matrix	thermoset, glass-fibre reinforced	thermoset, glass-fibre reinforced	thermoset, glass-fibre reinforced
Consistency	semi-rigid	semi-rigid	semi-rigid
Thickness	0.6 mm	1.0 mm	2.0 mm
Colour	white	white	white
Service conditions	for interior use	for interior use	for interior use
Activation temperature	approx. 150 °C (phase 1) approx. 300 °C (phase 2)	approx. 150 °C (phase 1) approx. 300 °C (phase 2)	approx. 150 °C (phase 1) approx. 300 °C (phase 2)
Intumescence factor (400°C)	up to 50	up to 50	up to 75
Expanding pressure (300 °C)	pressureless	pressureless	pressureless

Dimensions (standard)

Sheets/ sheetings	2.000 x 1.000 mm	2.000 x 1.000 mm	2.000 x 1.000 mm
Strips	Widths of 10, 15, 20, 25, 30 mm	Widths of 10, 15, 20, 25, 30 mm	Widths of 10, 15, 20, 25, 30 mm
Precut shapes	Hinges	Hinges, locks, door closers and all other mortised door hardware	Hinges, locks, door closers and all other mortised door hardware

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