

TECHNICAL DATA SHEET (TDS)

M12

FIRE SAVER INTUMESCENT ACRYLIC SEALANT

Demsun M12 is a single component water based fire rated acrylic sealant ideal for sealing joints to prevent the passage of flammable gases and toxic smoke in compartment walls and floors

FEATURES & BENEFITS

- **More than 4 hours of fire resistance without using any backfilling materials in certain conditions**
- **M1 Fire Rating according to NF P 92-501 radiation test**
- Good unprimed adhesion to most common construction substrates.
- Easy to apply
- Remains flexible
- Paintable
- Non-slump

APPLICATION AREAS

- **Sealing of joints and seams, or at certain areas where requirements for fire resistance are mandatory**

INSTRUCTIONS

- The joints must be clean and free from dust, grease and rust.
- No primer is required for non-porous surfaces. On porous surfaces such as concrete, stone, cement and plaster a primer (mixture of one part acrylic sealant and 4-5 parts of water) can be applied.
- Min/max joint width must be 5mm/25mm. The recommended joint depth/width ratio is 1 to 2.
- Application temperature is between +5 °C and +35 °C.
- Immediately after the application, smooth the sealant at once with wet finger or a wet tool. Excess sealant can be removed by a wet cloth.
- Keep the sealed joint dry at least for two hours.
- Cured sealant can be removed mechanically.

Fire and Smoke
Resistant Seal

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Consumption (approx.)

Application Width	5mm	10mm	15 mm	20 mm	25 mm
Application Depth	3mm	5mm	8 mm	10 mm	12 mm
Efficiency /310 ml	20 meters	6 meters	2,5 meters	1.50 meters	1 meters

STANDARDS

Meets or exceeds the requirements of the following specifications:

- The French VOC requirements for class A+
- M1 Fire Rating according to NF P 92-501 radiation test
- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.
- More than 4 hours Fire resistance without using any backfilling material according to EN 1366-4 under certain conditions.

RESTRICTIONS;

- Damp or humid conditions will significantly extend the cure time.
- Do not apply below 5°C

STORAGE AND SHELF LIFE;

The shelf life is 12 months if stored in unopened-original package in a dry place at temperatures between +5°C and +25°C.

SAFETY & DISPOSAL

Bears no imminent risk to health. Check MSDS guidelines for disposal and further information concerning safety.

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PROPERTIES

Basis	: Acrylic Dispersion	
Consistency	: Smooth paste	
pH	: 7.5-9	
Specific gravity	: 1,58 ± 0,03 gr/cm ³	(ASTM D 792)
Tack-Free time	: 15-30 min (23 °C and 50% R.H)	(ASTM C 679-03)
Curing Rate (mm/day)	: Min.2 mm/day (23 °C and 50% R.H)	
Shore A hardness	: 40 ± 5 Shore A	
Elongation	: > 100%	(ASTM D 412)
Tensile strength	: ≥ 0,4 N/mm ²	(ASTM D 412)
Application Temperature	: +5 °C to +40 °C	
Volume shrinkage	: %10-15	(ASTM D 412)

PRODUCT

Product Type	Volume	Package
White/Grey	310ml	12
White/Grey (Sausage)	600ml	12

DISCLAIMER

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