

Revision date:16/10/2023

Page 1 of 6

Product description:

Soudafoam MAXTWO HFO is a high quality, quick rise, 2-component, polyurethane spray foam for sealing in professional and industrial applications. It is air and watertight, but vapor open. It is supplied in a box containing two portable, disposable and pressurized cylinders requiring no external power source, no extra pressure and no pumps. The two tanks are connected by hoses to the dispensing gun equipped with special developed nozzles to assure a high quality foam is produced. Soudafoam MAXTWO HFO systems are containing a non-flammable, non-VOC, ultra-low GWP (<1) and zero ODP propellant which complies with the latest US regulations banning all CFC-, HCFC- and HFC-propellants.

Technical properties of the foam product:

| Properties | Value | Unit | Method |
|---------------------------------------|-------|--------------------|------------|
| Nominal density | 1.76 | lb/ft ³ | ASTM D1622 |
| Compressive strength | 21.2 | psi | ASTM D1621 |
| Tensile Strength | 43.8 | psi | ASTM D1623 |
| Thermal resistance per inch (R-value) | | ft²⋅h⋅°F/Btu | ASTM C518 |
| Initial 1" | 6.7 | | |
| Initial 2" | 13.2 | | |
| Aged 1" | 5.8 | | |
| Aged 2" | 12.4 | | |
| Dimensional stability | | | ASTM D2126 |
| -40°C (-40°F) | -0.2 | % | |
| 70°C/97% RH (158°F/97% RH) | 6.6 | % | |
| 37.8°C/97% RH (100°F/97% RH) | 3.5 | % | |
| Gel time | 30 | S | |

Mentioned values are typical for production samples, but are no sales specifications.

Application area:

Soudafoam MAXTWO HFO is developed for many uses in professional building and industrial applications. It can be used as thermal insulation, structural support, for repair jobs, filling and sealing of voids and cracks. This product is not suitable for load bearing applications (eg floors, roofs,...) which require a higher compressive strength.

Recommendations of use:

| Storage | | |
|-------------|-------------|---|
| Temperature | 59°F - 77°F | Higher storage temperature will speed up ageing |
| Conditions | | Store in upright position and dry conditions |



Revision date:16/10/2023

Page 2 of 6

| Application | | |
|-----------------------|---------------|--|
| Ambient temperature | 59°F - 95°F | |
| Substrate temperature | 40°F - 95°F | A too low or too high temperature can have a negative effect on foam (adhesion) |
| Component temperature | 59°F - 77°F | Too high or too low temperatures can have a negative influence on the mix ratio and foam quality |
| Substrate conditions | Dry and clean | Good adhesion on all surfaces (except for PE, PP and PTFE). Materials such as oil, grease, dust, loose debris, water and ice can affect adhesion. Substrates like aluminium and steel might require treatment with a primer or a coating. A damp surface can cause pin holes, blisters, a high percentage of open cells, poor mechanical strength, potential shrinkage and poor adhesion. Due to the exothermic reaction, substrates should be resistant to heat. When in doubt, the adhesion and/or heat resistance should be checked on the substrate or on a comparable sample. |

For more product info and detailed instructions: check Product and Application guide.

| Best Practice | |
|----------------------------------|--|
| Preparing the system: | Before use, shake both cylinders for approximately 20 seconds Apply an amount of gun lubricant to the inside of the dispensing gun Attach the end of the red hose to the ISO cylinder and the end of the blue hose to the polyol cylinder. Tighten securely with the included wrench. The wrench is developed to deform if excessive pressure is applied Slowly open the valves of both cylinders until fully open and check for leaks and liquid flow inside hoses |
| Purging and checking the system: | Purge the system for 5 seconds into a waste container by first activating the red safety trigger and subsequently the main black trigger completely. Both product flows should be equal in volume to assure good foam quality When both flows are visually equal in volume, clean the gun with Soudal Gun & Foam Cleaner and re-apply some gun lubricant to the inside of the gun Insert the nozzle into the front of the gun. Make sure the nozzle fits perfectly in the dispensing gun until a "click" is audible Before spraying it is advised to do some test shots in a waste container to check if foam quality is good and if color of produced foam is homogeneous. A homogeneous foam indicates a good mix ratio Before starting with the spray process, it is advised to do some test shots to get used to the spraying process if this is not the case |



Revision date:16/10/2023

Page 3 of 6

| Applying: | Check if the application conditions are conform the prescriptions mentioned in Product properties Hold the dispensing gun about 6" - 24" away from the surface/space that has to be sprayed Gun is equipped with a red safety trigger and a black variable action trigger. Both triggers should be activated. When a new foam kit is used it's advised to not completely activate the black trigger as this may result in a (too) high foam output. As foam is sprayed and created from the kit, this trigger can be activated more to obtain similar output as in the beginning of the spray process Move the dispensing gun under controlled movement to cover the desired surface/space with foam Spray in foam layers of approx. 1" - 2" thickness. While spraying the product an amount of heat is released because of the exothermic nature of the chemical PU reaction. Make sure that the substrate is not affected by this heat release. It is advised to do a test shot to verify this Replace nozzle when not been used for more than 20 seconds (earlier at higher component temperatures as 68°F) Check during spraying continuously if the foam is homogeneous of color and if a rigid, hard foam is formed after some minutes | | |
|---------------------------|--|--|--|
| Application interruption: | Empty cylinder(s): | When the cylinders are empty, 2 new tanks should be connected. Make sure both cylinders are completely empty for disposal (see manual): Close the valves of both cylinders Empty remaining liquid in hoses into a waste container by activating the dispensing gun trigger Follow instructions mentioned in the disposal part (see manual) Clean both hose ends with Soudal Gun & Foam Cleaner. Pay special attention for cleaning of the ISO hose end. If not cleaned properly blockages or leaks may occur Connect the hoses to the new cylinders Remove nozzle and clean dispensing gun with Soudal Gun & Foam Cleaner Shake new cylinders thoroughly for 20 seconds Open cylinder valves slowly and check for leaks Purge system as mentioned before and visually check if both flows are equal in volume | |



Revision date:16/10/2023

Page 4 of 6

| are r and store | n cylinders not empty should be ed for a t period (1- ys): | Clean dispensing gun with Soudal Gun & Foam Cleaner Apply sufficient gun lubricant and insert new nozzle Spray process can be continued Close both valves of the cylinders Remove the nozzle and clean the gun with Soudal Gun & Foam Cleaner Apply sufficient gun lubricant to the inside of the gun and reinsert the used nozzle System can be stored according to storage conditions up to 1 week If spray process has to be continued, remove nozzle, shake both canisters for 20 seconds and open valves of both cylinders Follow "purging and checking the system" instructions before starting new spray job |
|----------------------------------|---|---|
| are r and s store perio | n cylinders not empty should be ed for a bd longer week: | Close both valves of the cylinders Remove the nozzle and clean the gun with Soudal Gun & Foam Cleaner. Apply sufficient gun lubricant to the inside of the gun and reinsert the used nozzle If the system has not been used for one week, it should be activated once a week This is done by shaking both cylinders for 20 seconds and opening the valves of both cylinders completely Remove nozzle and purge for few seconds in a waste container by pressing trigger completely. This will rinse the hoses It is advised to repeat this once a week as long as the system is not used Clean the gun with Soudal Gun & Foam Cleaner Apply sufficient gun lubricant in the dispensing gun and reinsert the used nozzle for storage Close both valves of the cylinders System can be stored according to storage conditions If the spray process has to be continued, remove nozzle, shake both canisters for 20 seconds and open both cylinder valves Follow "purging and checking the system" instructions before starting new spray job |



Revision date:16/10/2023

Page 5 of 6

| Foam layers | | |
|-----------------|------------|--|
| Layer thickness | Approx. 2" | High foam thickness can be reached using several layers of 1" - 2". It is advisable to wait 20 minutes |
| | | between applying more layers onto each other. |
| UV-Protection | Coating | For outside applications, foam should be protected against UV-radiation. |

Disposal cylinders: Check SDS/Check Product and Application guide.

Packaging:

| | Soudafoam MAXTWO HFO | Soudafoam MAXTWO HFO-XL (**) | |
|--------------------------|---|----------------------------------|--|
| Total net weight | 26.5 lb | 88.2 lb | |
| | 1 box with: | | |
| | -1 cylinder Soudafoam MAXTWO | | |
| | HFO poly | -1 box with 1 cylinder Soudafoam | |
| Packaging | -1 cylinder Soudafoam MAXTWO | MAXTWO HFO-XL poly | |
| Packaging | HFO iso | -1 box with 1 cylinder Soudafoam | |
| | -GHA 9 or 15 ft | MAXTWO HFO-XL iso | |
| | -plastic bag with 8 Cone, 4 Fan | | |
| | nozzles, wrench and gun lubricant | | |
| Theoretical yield (Board | 185 | 615 | |
| ft)* | 601 | | |
| Colour | Champagne | | |
| Shelf life | 12 months | | |
| | -Soudal dispensing gun with hoses (9, 15 and 30 ft hose lengths | | |
| | available) | | |
| Accessories (available | -Fan nozzles | | |
| Accessories (available | -Cone nozzles | | |
| separately) | -tube gun lubricant | | |
| | -Soudal Gun & Foam Cleaner | | |
| | -Wrench | | |

* Note: Theoretical volume yield calculations are determined in perfect laboratories conditions, without

taking into consideration the loss of blowing agent during application. Lower component temperatures (<59°F) have a negative impact on yield, mix ratio and foam properties in general. ** GHA must be ordered separately

Safety advice:

Both cylinders are under pressure. Do not puncture the cylinders, do not dispose before emptying. Avoid prolonged storage in direct sunlight or near heat sources.

Remarks: this TDS version supersedes all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. Soudal preserves the right to alter its products without prior notice.

Everdongenlaan 18-20 Fax: +32 (0)14 42 65 14



Revision date:16/10/2023

Page 6 of 6

Do not breathe vapors or spray. Use only in a well-ventilated area. Use proper protective clothing (e.g. impermeable coveralls, no skin should be exposed) and chemical resistant gloves. It is recommended to wear respiratory protection, according to OSHA requirements, while operating the Soudafoam MAXTWO HFO systems (e.g. half face mask respirator with appropriate filter) in combination with safety goggles. Check SDS for further information on personal protection and protection of the environment.

Remarks: this TDS version supersedes all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. Soudal preserves the right to alter its products without prior notice.

Everdongenlaan 18-20 Fax: +32 (0)14 42 65 14