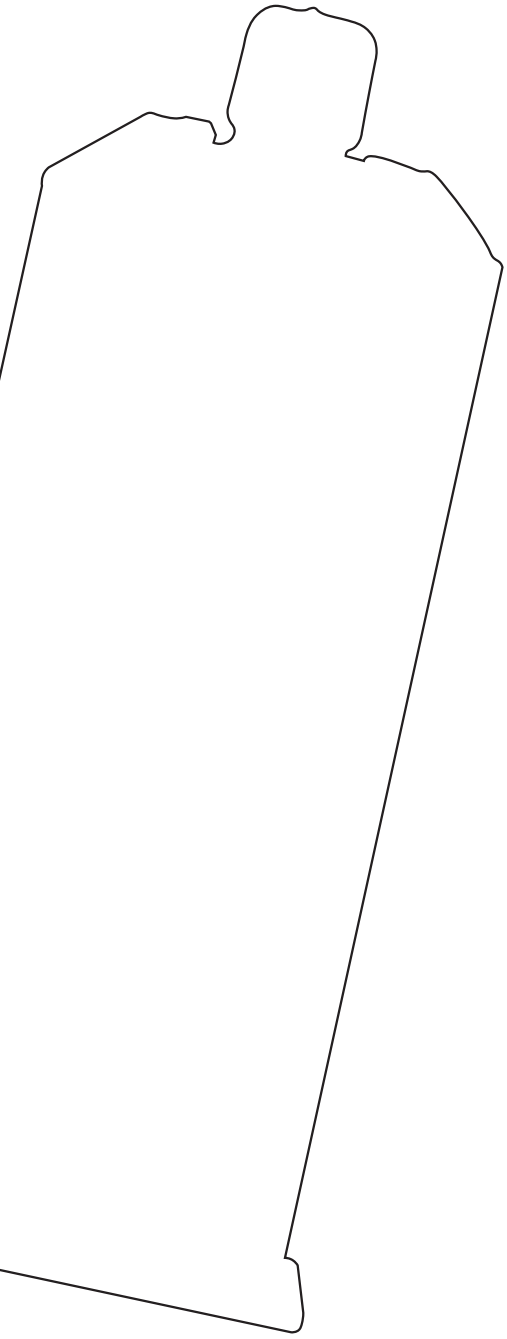
Technical Data Sheet



FAST RIGID FOAM-WHITE

FAST RIGID FOAM WHITE is a two components foam which has polyurethane as basis, is grey white, polymerizes itself at room temperature in very few seconds.

Product Code - PROFOAM-W; PROFOAM-W200

CHEMICAL BASE	PU
REACTION TIME	3 SEC
COLOUR	WHITE
DENSITY	0,125
VISCOSITY	LIQUID

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Technical Data

PROPERTIES	COMPONENT A	COMPONENT B	MIXED
Chemical base	Polyol	MDI	Polyurethane
Mixing ratio by volume	1,00	1,00	
Mixing ratio by weight	0,89	1,00	
Colour	Natural	Natural	White
Appearance	Liquid	Liquid	Foam
Viscosity (mPa•s)	800	800	15.000
Relative density	1,04	1,20	1,12
Application temperature (°C)			+10 / +30
Gel time (10 g @ 20 °C)			3 sec
Expansion time (10 g @ 20 °C)			15 sec
Cut after			3 min
Polymerization completed (10 g @ 20 °C)			120 min
Density (kg/l)			0,125
Hardness			Rigid
Service Temperature (°C)			-36 / +90
Retention time (months)			12
Storage temperature (°C)			+20 / +30

Surface Preparartion

- The pre-treatment of thermoplastic materials like PVC, polycarbonate, polypropylene, PMMA, etc, can be made using a mixture of light ethers or with isopropanol. Avoid using solvents
- The pre-treatment of all the other surfaces can be made using acetone or trichloroethylene
- All the surfaces must be free from dust, oils and loose material.
  Cavities must be partially filled as final filling will be completed by the expansion of the material.

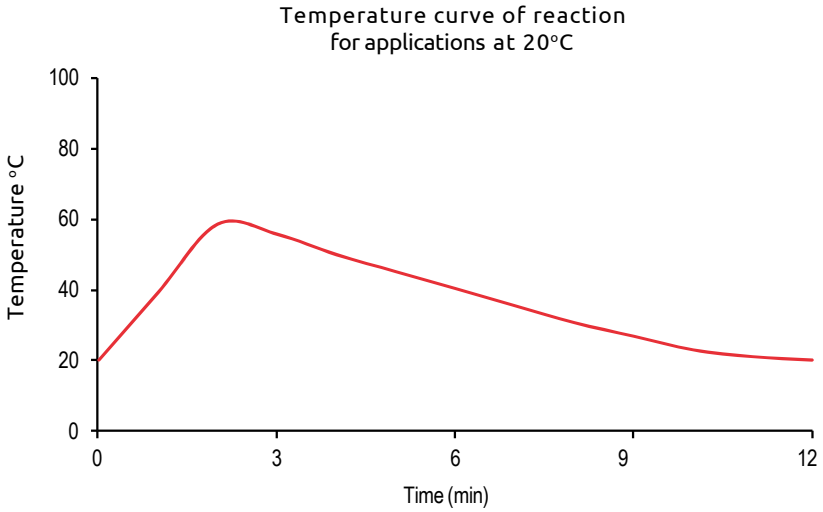
Application Guide

Blending should be made through static mixer composed by a minimum of 21 elements. A lower number of components doesn't allow a complete mixing. A higher number of components would increase speed of the chemical reaction of hardening. Static mixer nozzles are designed for 1 use only.

Bi-components cartridges can be used through manual applicators or specifics pneumatic tools, based on capacity and cartridge shape.

Reaction Mechanism

The speed of the hardening reaction is influenced by the application temperature. In conditions of standard temperature (20 °C), the foam is cut after 2 minutes and reaches its maximum hardness within two hours of the extrusion.



Technical Characteristics of Cured Products

Color	White
Expansion Ratio	1:9
Density	125 kg/m³
Mechanical Resistance	0.2 N/mm²
Closed cell contents	> 90%
Water Absorption	2.0% vol
Thermal Resistance	0.04 W/(m*K)
Fire Resistance	self-extinguishing

The values, obtained with standard methods are exclusively provided as technical information, and not as product specification.

It will be up to the user to test the product for a specific situation.

PRODUCT STORAGE

FAST RIGID FOAM WHITE has a shelf life of 12 months from the initial production as long as it is stored in a cool and dry place, between +20 °C and +30 °C.

Once opened, the cartridges will last until the expiry date (as long as the above conditions are met) leaving the last mixer used onto the cartridge.

Prior to ulterior usage, clean the top of the cartridge to eliminate possible solidified foam residuals which could obstruct the product emission.

PRODUCT HANDLING CAUTIONS

These products are generally quite harmless to handle provided that certain precautions are normally taken when handling chemicals.

The uncured materials must not be allowed to come into contact with foodstuffs or food utensils, and measures should be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected.

The wearing of impervious rubber or plastic gloves will normally be necessary; likewise the use of eye protection.

The skin should be thoroughly cleaned at the end of each working period by washing with soap and warm water. The use of solvents has to be avoided. Disposable paper should be used to dry the skin.

Adequate ventilation of the working area is recommended.

These precautions are described in greater detail in the safety data sheet for the individual products and should be referred to for further information.

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