

PITTSEAL[®] 444N Sealer

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Date: 31.03.2015

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1. Description and area of application

PITTSEAL[®] 444N is a single component, non-hardening butyl based sealer which does not dry but forms a soft skin after 1 to 3 hours. PITTSEAL[®] 444N sealant can be used:

For Industry applications:

- to seal joints between FOAMGLAS[®] slabs or pipe coverings
- to seal protrusions and metal jacket laps
- to seal wall/ceiling, wall/floor and wall/wall junctions
- as a sliding layer in expansion/contraction joints
- as bedding compound behind FOAMGLAS[®] insulation on piping and machinery.

PITTSEAL[®] 444N adhere to FOAMGLAS[®] cellular glass and many other surfaces such as steel, concrete, wood etc.

For Building applications:

- Sealing joints between FOAMGLAS[®] slabs and boards.
- Sealing of wall/ ceiling wall / floor and wall / wall junctions.



2. Application

2.1 Preparation of the substrate

The surface to be insulated should be clean, dry and free from all traces of grease, rust, dust, oil, and moisture.

2.2 Preparation of the sealant and application guideline

PITTSEAL[®] 444N works easily within the suggested application temperature range. To apply the PITTSEAL[®] 444N at low temperature, keep the drums in a heated location, alternatively loosen lid and warm by indirect heat. Do not heat drums with flame or direct heat. DO NOT DILUTE with solvent.

- Joints should be leveled before application of sealant.
- Best applied by extrusion gun or from cartridges. Trowel or knife can be used for restricted areas.
- PITTSEAL[®] 444N may be applied to one or both surfaces. Press firmly in order to obtain a complete seal.
- Maintain a 3mm maximum thickness for the joints. Do not use this to fill large voids from or gaps due to poor fitting.
- To seal expansion joints, apply the sealant on both joining surfaces, and if necessary pack tightly. The joint width is determined by the expected movement, and should not exceed 15mm.
- Cut off any excess sealant flush with surface.
- Allow to cure one week before putting the installation in service, specially at high temperature service.

2.3 Cleaning the tools

With white spirit or chlorinated solvents.

2.4 Limitations

May pick up dust when exposed. Solvent may attack some organic foams.

2.4 Product Safety Notice

All material safety data sheets (MSDS) are available. They aim to ensure a safe handling of the product and correct disposal.

- Combustible mixture containing mineral spirits: store out of direct sunlight and keep away from open flames.
- Avoid prolonged contact with skin.
- Use in sufficiently aerated areas.
- Close the drums after use.

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3. Type of delivery and storage

Drums of 2.67 l (4 kg) net or cartridges of 0.310 l.

- Store cool and dry in well-closed containers.
- Protect against heat and direct exposure to sunrays.
- Protect against frost.

4. Consumption

As surface coating: approx. 5.2 kg/m² (thickness of final layer 3mm)

As jointing sealing: 0.25 kg/m (for 3mm opening joint x 50mm)

These quantities are for guidance only; they depend on the properties of the substrate, the thickness of the FOAMGLAS[®] slabs, the application and site conditions, etc.

5. Key data

Type	One-component adhesive
Basis	Butyl based sealant
Consistency	pasty
Service temperature	- 50 °C to + 80 °C
Application temperature (air + basis surface)	+ 10 °C to + 25 °C
Application time	at 20 °C: approx. 90 minutes
Drying time	non-drying, skin in 1-3 hours
Dehydration time	-
Mass density	approx. 1.5 kg/dm ³
Colour	grey
Water vapour diffusion resistance	μ = approx. 23 000
Water solubility	insoluble after complete drying
Solvents	mineral oil solvents
Reaction to fire (EN 13501-1)	-
VOC	102 g/l
Giscode	-
Permeability	0.01 perm cm
Flash point (Pensky Martens Closed Cup)	+40 °C
Solids	84 % of volume

The physical properties indicated above are average values, which are measured under typical conditions. These values may be influenced by insufficient mixing, the type of laying, the layer thickness and the atmospheric conditions during and after application. In particular drying times are affected by temperature, air humidity, direct sunlight, wind, etc.

Additional information can be found in our technical data sheets (TDS). Our liability and responsibility are guided exclusively by our general terms and conditions and are not expanded by the statement of our technical documents nor by the advice of our technical field service.