HARDEX®

PERFORMANCE EASY

SPUR HARDEX PERFORMANCE EASY

An Innovative Solution for More Efficient Lamination – Better Surface, Higher Productivity, Lower Costs!

Superior Surface Quality

Achieve a smooth and uniform finish without defects or distortions.

Minimal Foam Thickness Loss

Maintains original foam structure, even under higher loads.

Higher Lamination Speed

Faster processing increases productivity and shortens production cycles.

Simplified Lamination of Lightweight Skins on Lightweight Cores

Ideal for modern, weight-sensitive constructions.

Lower Lamination Temperature

Reduced temperatures cut energy consumption and operational costs.

Significant Energy Savings

Efficient thermal management leads to lower overall costs.

Stronger Adhesion for Thicker Skins

Ensures reliable bonding even with challenging materials.

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The correct use of Hardex Performance Easy XPP core is based on the following conditions:

1. Use of suitable reinforcing layer.

- It can be of any composition, however, to ensure recyclability, it is recommended to use reinforcing layers based on PP, PP/GL, aluminum, etc. As a rule, the reinforcing layer material is chosen with a higher temperature resistance of at least 160-170°C. For reinforcing layers based on polypropylene, the melting point of polypropylene must be 160°C and higher.
- It is necessary that the reinforcing layer is originally provided on the back by the supplier with a thermoadhesive layer 10-200 microns thick on a PP basis with a melting point in the range of 135-145°C. In special cases, it may be lower.
- This thermoadhesive layer can be substituted by an additional application of a thermoadhesive layer to the back of the reinforcing layer in the form of a film, powder or grid, hot-laminated onto the surface of the reinforcing layer at a temperature of 150°-180°C. It is necessary that the adhesion between the reinforcing and thermoadhesive layers after lamination is sufficient. It is logical that at lower lamination temperatures of 150-160°C the adhesion will be compromised, but the reinforcing layer will not be damaged, especially if it is based on polypropylene. At higher temperatures of 160°C-180°C the adhesion will be better, but the reinforcing layer may be damaged, so this higher sealing temperature is recommended mainly for durable reinforcing layers such as those based on aluminium
- This thermoadhesive layer cannot in any case be substituted by a thermoadhesive film inserted LOOSELY between the reinforcing layer and the XPP core during lamination of the final sandwich. The thermoadhesive layer must always be a solid part of the reinforcing layer before the lamination of the final sandwich.

2. Use of suitable Polypropylene core

- Hardex Performance Easy XPP core must be used

Lamination process at recommended process conditions for lamination of reinforcement layers and Hardex Performance Easy XPP core in the final sandwich

Adhesive system HARDEX Easy	Maximum operating temperature of sandwich (°C)	Fusing teperature (°C)	Fusing pressure (kPa)	Minimal fusing time (second)			
				PP/glass Organosheet			Aluminum (0,5-1,5 mm)
				2 UD (0,66 g/m²)	4 UD (1,35 g/m²)	8 UD (2,65 g/m²)	
High temp	115	145	10-50	20	30	60	30
		150		20	20	30	20
Mid temp	100	140		20	30	30	30
		145		20	20	20	20