

- Low weight
- Flexible
- Excellent elasticity
- Non tearing
- Resistant towards chemical influence
- Outstanding tensile strength
- Easy to apply

Poly Star is a strengthening roll made from 100 % spun polyester-endless fibers. It is used for repairs and extensive roof coatings. Together with the known Plasticoate roof coating Poly Star roofing systems offer an optimal strength, flexibility and durability. The ideal purview are roofs with a smooth surface where conditions don't allow the use of a simple repair- and coating system, however, Plasticoate Polyplate systems aren't necessary, yet.

- **Good mechanical characteristics with low weight**

Poly Star is easy to apply because of weight of only 98 g per square meter. Nevertheless, this strengthening roll offers excellent tensile strength and ultimate elongation in all directions.

Poly Star is available in following sizes:

For repairs:	15 cm x 100 m
	30 cm x 100 m
For extensive application:	122 cm x 100 m

Poly Star is made of frizzy fibers. Through this, two important advantages result:

1. Frizzy fibers are more flexible than straight ones. Poly Star is easier to apply because of that – an advantage which especial is used for corners, ankles and connections of roof openings.
2. With an ultimate elongation up to 85 %, Poly Star successfully resists thermal caused movements of the roof surface. Poly Star, embedded in Plasticoate Roof Coating is able to resist roof movements much better than the ones with glass fibers fillings.

- **Outstanding adhesion**

Poly Star has a high absorbency and excellent adhesion for liquids. The roll will be completely impregnated with Plasticoate and guarantees outstanding adhesion characteristics. No folds will be formed during application. All of these characteristics make Poly Star an ideal strengthening roll for repairs and extensive coating of roof surfaces.

- Chemical durability

Poly Star is outstanding durable towards combinations of hydrocarbon, aromas, alcohol, ketones, rarefied acids and lye.

- Economical

The Poly Star roofing systems can be applied at ones. Waiting times caused by drying before putting on top layers of Plasticoate Roof Coating aren't necessary any more. This so-called "Wet in Wet" procedure considerably reduces expenses and makes the Poly Star system economical.

Technical data:

Fiber:	100% endless frizzed polyester fibers, tied with heat and pressure
Specific density:	1,34 g/cm ³
Weight:	98 g/m ²
Layer thickness:	480 microns
Liquidity absorption:	< 0,2 % after 24 hours in a water bath
Chemical durability:	excellent towards combinations of hydrocarbon, aromas, alcohol, ketones, rarefied acids and lye

Tensile strength (DIN 53857)

MD (lengthwise)	227 N
XD (crosswise)	200 N

Tearing strength (DIN 53859)

MD	2,7 kPa
XD	2,9 kPa

Ultimate elongation

MD	71 %
XD	85 %