

# Lucolast® 7010AC

Ethylene Butyl Acrylate Copolymer

Lucobit AG

## Message:

Lucolast® 7010AC is a polar copolymer consisting of ethylene and butyl acrylate with low crystallinity.

### Product properties

Addition of Lucolast® 7010AC to bitumen increases the range its viscosity and broadens the range of plasticity. Depending on the proportion of Lucolast® 7010AC that was added the minimum value of the Fraass breaking point of Lucolast® 7010AC modified bitumen decreases and the ring and ball softening point increases. Penetration values decline accordingly. Ductility determined according to DIN EN 12591 decreases, however, the values ascertained for the so-called ductility at low temperatures are more favourable than those for standard bitumen with-out addition of Lucobit.

### Product advantages

Compared with other standard binder Lucolast® 7010AC displays significant advantages in improving resistance to deformation. Rut formation test at high temperatures demonstrated that asphalt can bear a two- to three-fold load when modifying it with thermoplastics or altering binder viscosity by adding Lucolast® 7010AC. This does not impair the low-temperature performance of Lucolast® 7010AC, but rather improves it.

### Applications

Even relatively small amounts of PmB based on Lucolast® 7010AC in asphalt mixtures improve:

resistance to mechanical stress, in particular deformation and wear

stability/rigidity and reduce the tendency to flow, when hot and under load

low temperature flexibility

ageing behaviour

### Examples for application:

s-wearing courses to ZTV-Asphalt - StB

poured asphalt, also on sloping surfaces (ramps)

stone mastic asphalt

special asphalt surfaces, e.g. porous asphalt thin

bituminous wearing courses (hot laying)

## General Information

### Features

Flexibility at low temperatures

Copolymer

Environmental protection

Good stability

Medium hardness

### Uses

Asphalt modification

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