

POLYCYKLE PK LL

DESCRIPTION

Modifying additive for glycopospholipid-based bitumens able to modify the characteristics of bitumen, allows to reach high increments of physical mechanical characteristics, enhances the elastic behavior even at high temperatures and increases adherence between bitumen and aggregates.

The high compatibility of POLYCYKLE PK LL allows its use simply adding it to the hot bitumen.

APPLICATION

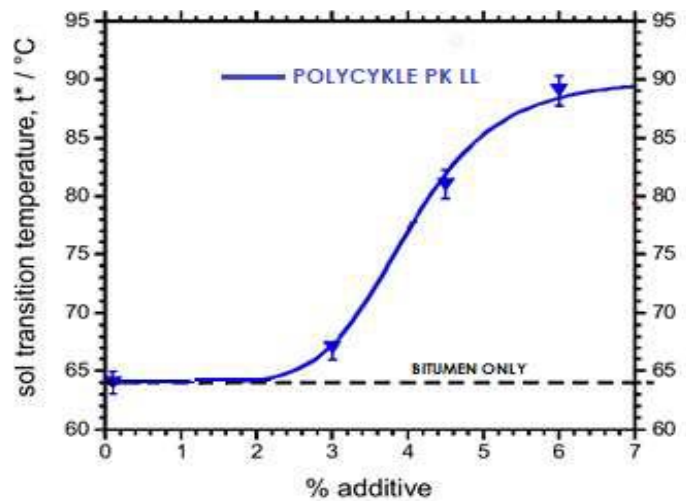
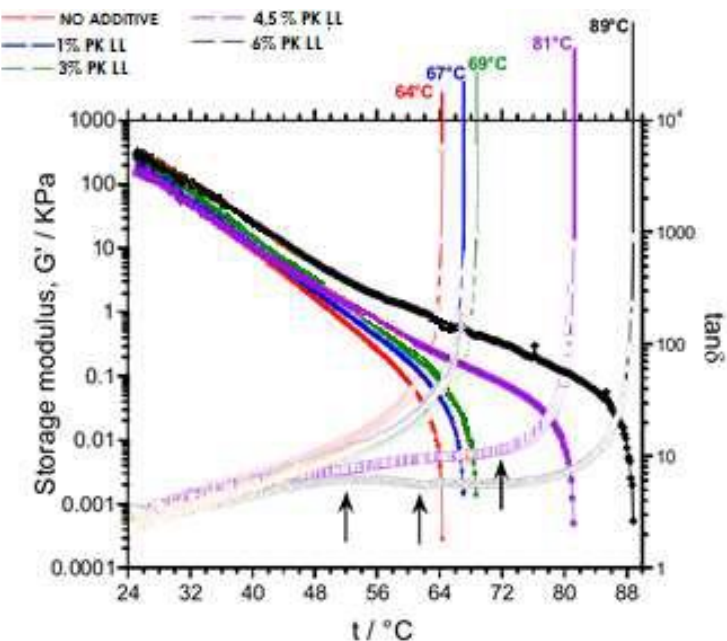
POLYCYKLE PK LL can be used on any bitumen to produce multiple types of bituminous conglomerate (base, binder, wear layer).

METHOD OF USE

POLYCYKLE PK LL is added and dispersed directly to the hot bitumen to produce a bitumen modified or alternatively in the mixer of the production plant during the production phase of the conglomerate, using an automatic doser or dosing it manually.

DOSAGE

The dosage percentages are a function of the level of change to be achieved, POLYCYKLE PK LL is normally used from 3% to 6% w / w on the bitumen mass.



Variation of the complex module as the temperature and concentration of POLYCYKLE PK LL vary

Variation of transition temperatures between the elastic and viscous behavior of bitumen modified with POLYCYKLE PK LL



	ONLY BITUMEN	BITUMEN + 1% PK LL	BITUMEN + 3% PK LL
(angle)±0.1°	35.3	32.5	2.7

Change of contact angle on acid stone with POLYCYKLE PK LL

Looking at the graphs, we note how the addition of POLYCYKLE PK LL increases the elastic characteristics of the bitumen and it allows to reach high modulus values even at high temperatures, bringing the bitumen to have a behavior similar to a bitumen modified with SBS. Furthermore the addition of POLYCYKLE PK LL increases the wettability and therefore the adhesion between the bitumen and the inert also in the case of inert of an acid nature, thus acting as an adhesion activator so as to greatly reduce the phenomena of stripping and aging of the road surface, making the bitumen suitable for chip seal paving operations.

STORAGE

POLYCYKLE PK LL can be stored for 24 months in the original and closed packaging at a temperature between 5 ° C and 30 ° C.

SAFETY

For more information on classification, protection measures and measures in case of fire, see the product safety data sheet, available upon request.

WARNINGS

Advice on how to use it corresponds to the current state of our knowledge and not imply the assumption of no guarantee and / or responsibility on the final result of the works. Therefore, they do not exempt the customer from the responsibility of verifying the suitability of the products for use e the goals set by means of preventive tests.