

# Introduction

## Purphalt **Asphalt** reparation

**EM4C**  
Engineering Materials for Construction



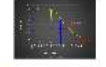
**Purbit**



**Purphalt**



**Purbit vs. pmb**



**Features of "traditional asphalt"**

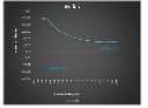
- Produced at high temperatures (>170 deg. C)
- High energy consumption and emissions
- requires long start up time of production units
- requires specially designed isolated trucks
- risk of cooling down at the job site
- Unavoidable **mechanical stresses in asphalt layers**

The lower the temperature, the better in quality

Improve the binder by using a new combination of resins and bitumen:

**PURBIT**

an **alternative binder** to (polymer modified) bitumen binders for hot mix asphalt



**Features of "traditional asphalt"**

- Conventional binder (also modified) shows high level of **classic deformations**
- rutting at higher temperatures and heavy traffic loads
- brittleness at low temperatures, causing cracking, raveling etc.



Introduction  
Purphalt Asphalt  
reparation  
**EM4C**



**Road**

SOLUTIONS

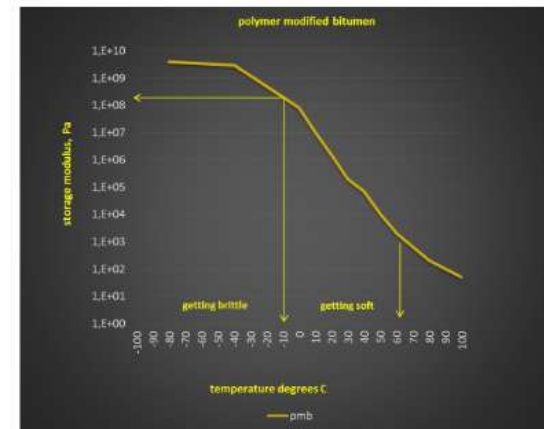


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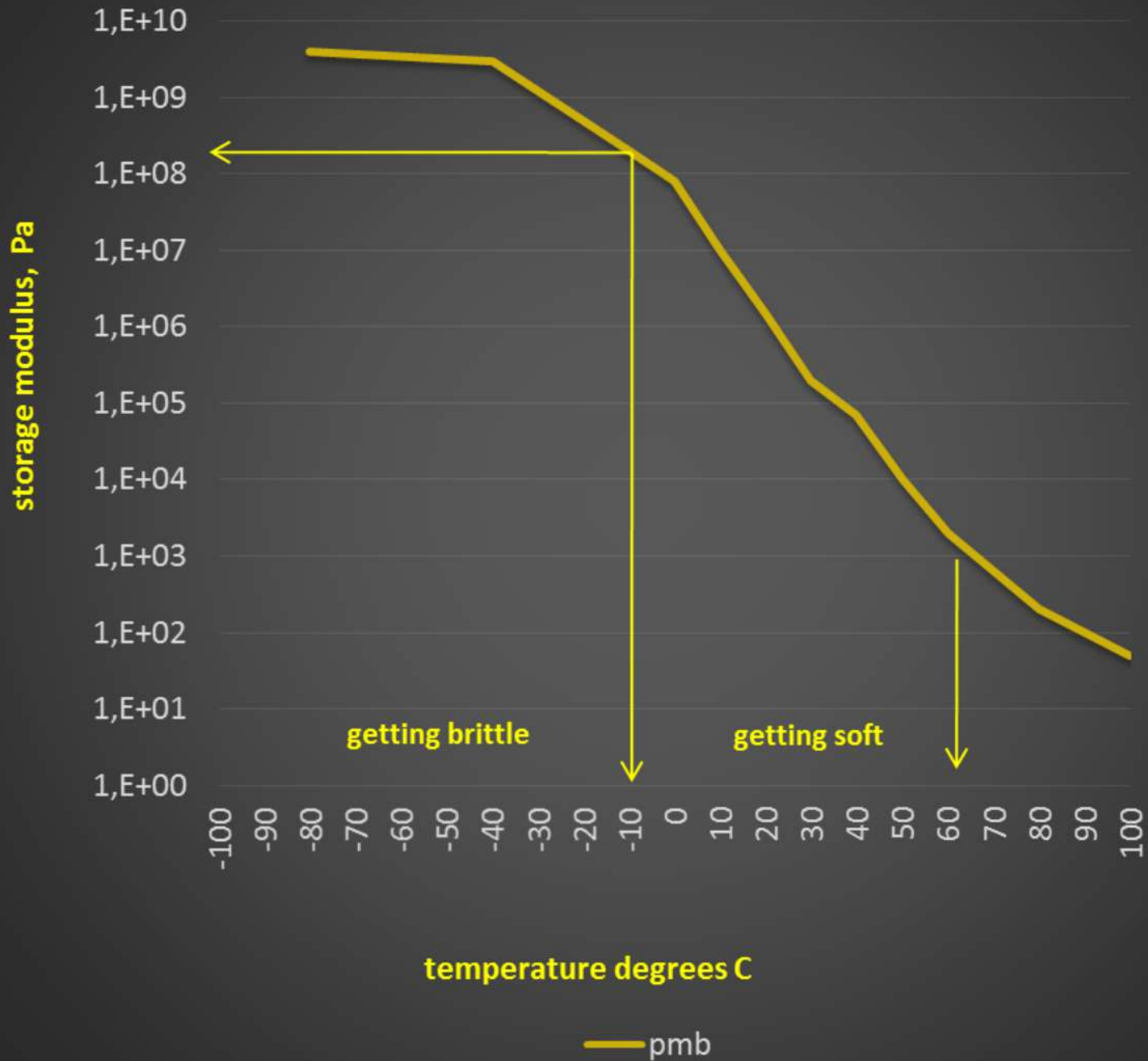
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## Features of "traditional asphalt"

- Conventional binder (also modified) shows high level of **plastic deformation**;
  - rutting at higher temperatures and heavy traffic loads
  - brittleness at low temperatures, causing cracking, ravelling etc.



# polymer modified bitumen



### *Features of "traditional asphalt"*

- Produced at high temperatures (>170 degr. C)
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  - risk of cooling down at the job site:
- Unevitable **mechanical stresses in asphalt layers**

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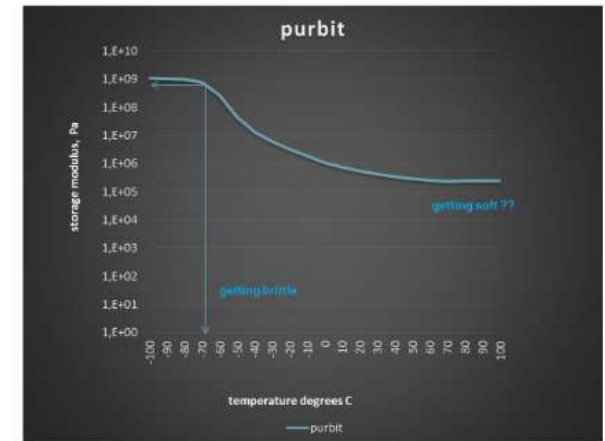


PURBIT modified asphalt

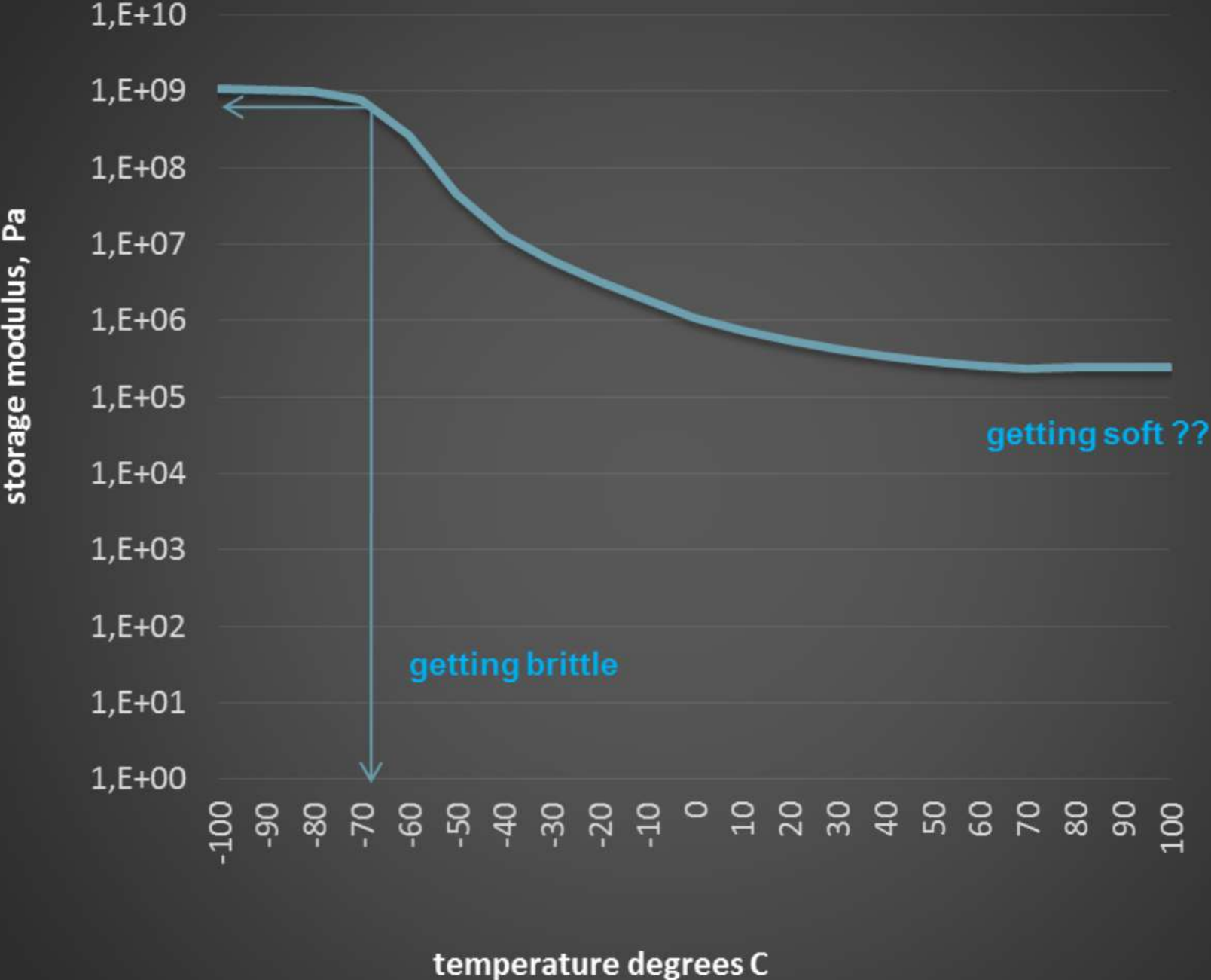
Improve the **binder** by using a new combination of resins and bitumen:

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an **alternative binder** to (polymer modified) bitumen binders for hot mix asphalt



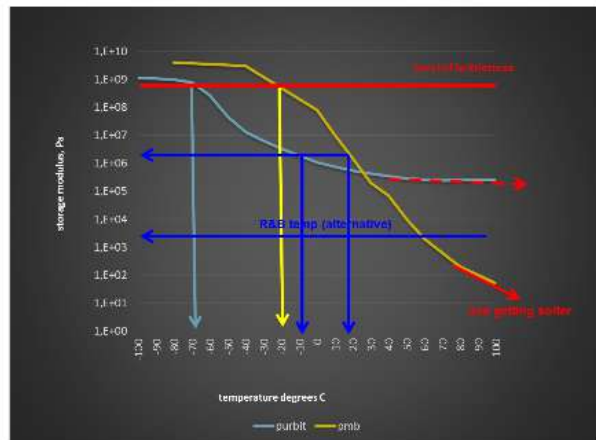
# purbit



— purbit



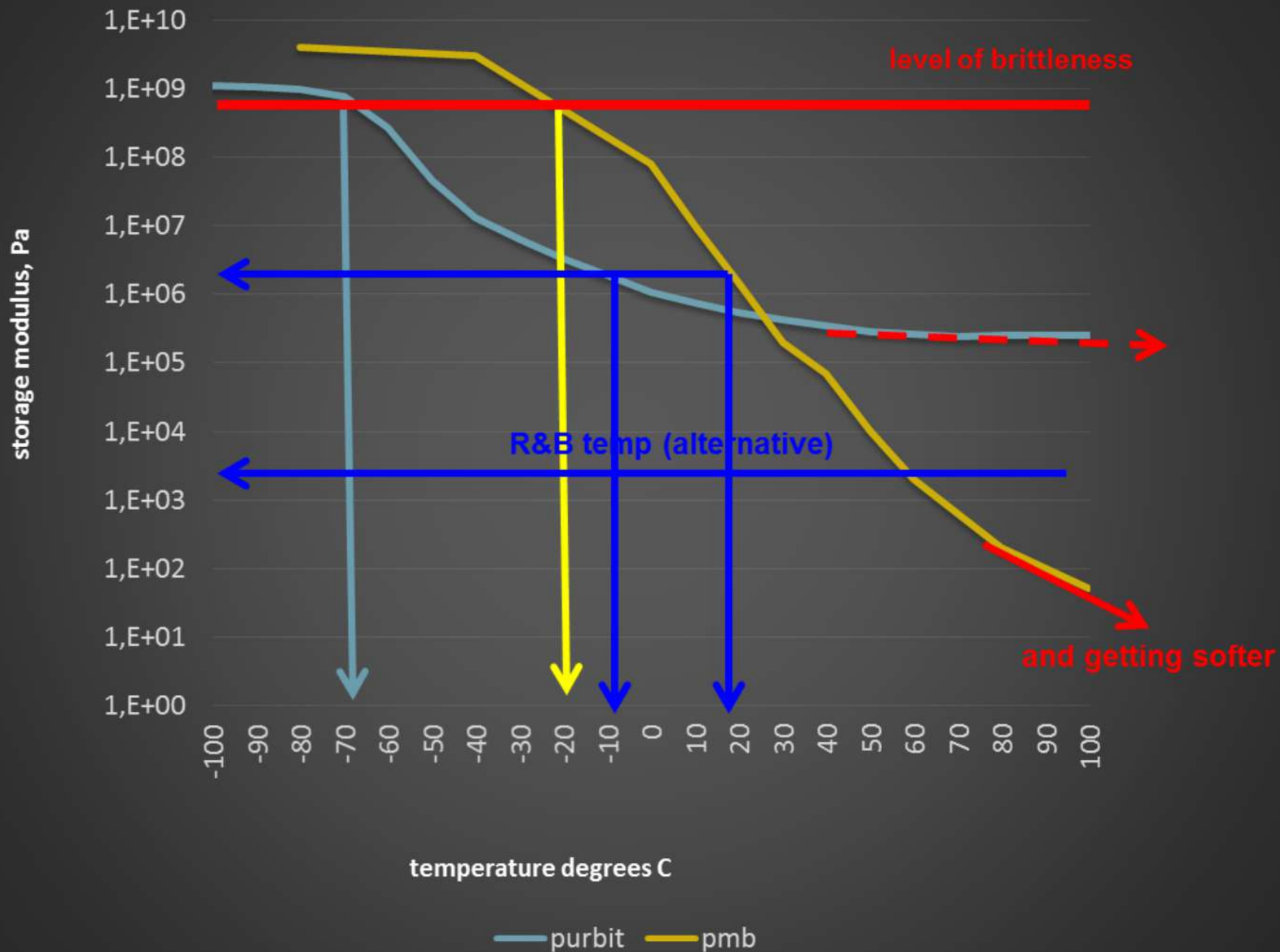
# Purbit vs. pmb



Asphalt with premium binder after 10.000 passes at 60 degr. C



**PURBIT** modified asphalt





Asphalt with premium binder after  
10.000 passes at 60 degr. C



**PURBIT** modified asphalt

# Purphalt®

dual component cold applied  
road repair system

- Workable in all seasons (-20C - +40C)
- Easy to apply, without heating
- Fast curing, resulting in minimum interruption to traffic flow
- 100% solvent-free and fully recyclable
- durable sustainable solution, not temporary
- possible to be compacted in layers > 250mm thickness by single process
- optional multi-coloured



b



# Purphalt® Patching mortar

Application pothole repair



















# Purphalt® Patching mortar

Application pothole repair

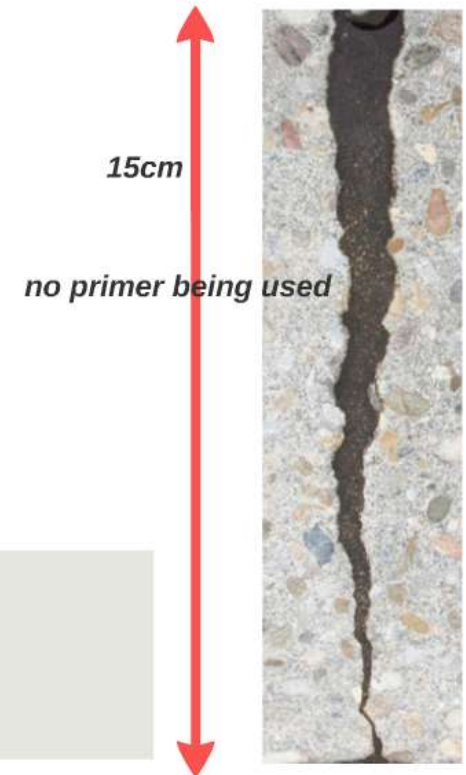


# Purphalt<sup>®</sup> JOINT

Crack filler;

- no water, no solvents:
  - original volume is maintained
- Application at ambient temperatures:
  - no temperature-induced shrinkage

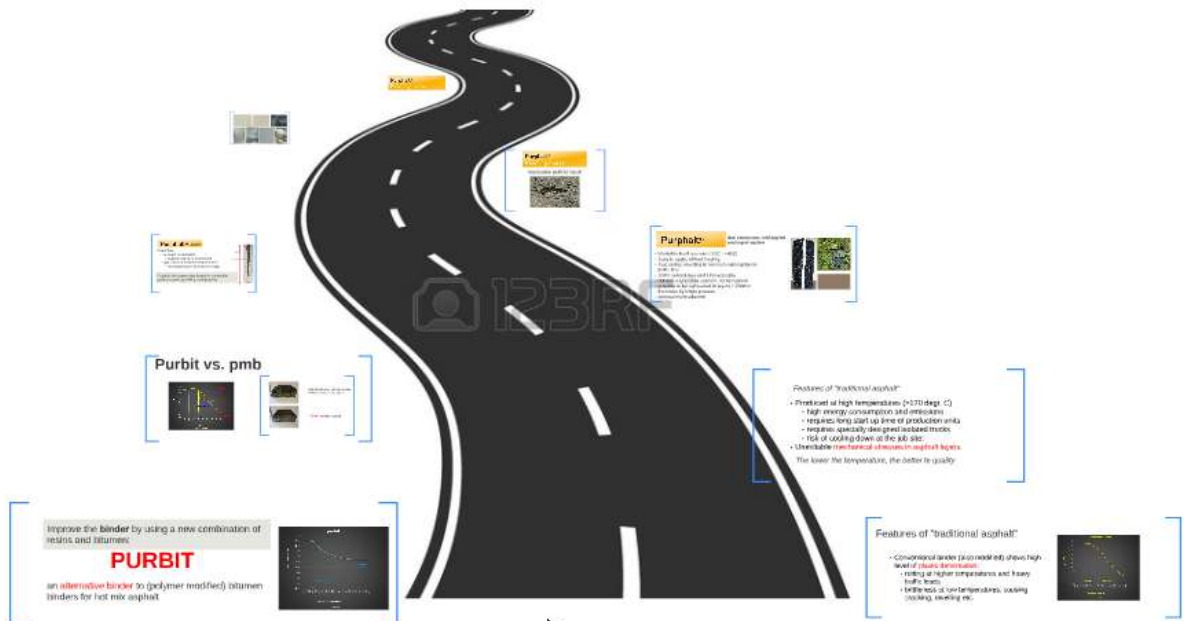
Purphalt Joint penetrates deep into the smaller parts of cracks, providing waterproofing.











**Road SOLUTIONS**

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**Purphalt<sup>®</sup>**

Patching mortar