

High Storage Stability Emulsions. Emulsiones Export



Emulsions



Emulsions can be defined as a thermodynamically unstable heterogeneous system, comprising two phases: the bitumen phase and the aqueous phase, composed of water, emulsifiers and pH regulators. Due to this natural instability, a process called sedimentation occurs over time, during which the binding phase decants, with the gradual separation of water and bitumen. This can ultimately cause the total or partial break of the emulsion, going from a typical sedimentation phenomenon to flocculation and coalescence, problems in transferral from the tank and differences in binder concentration.

To solve these problems, Repsol has developed a range of emulsions called **Emulsiones Export**, with high stability in storage, enabling an improvement in the natural sedimentation process during storage and long distance transport.

/ APPLICATIONS

The applications of Emulsiones Export are the same as those of cationic and anionic bituminous emulsions for roads:

- Primer coats
- Tack coats
- Curing coats
- Bitumen slurries and cold microsurfacing
- Emulsion gravel
- Surface treatments using coat with gravel
- Open granulometry bitumen mixes
- Warm mixes manufactured with emulsion

/ PRODUCT CHARACTERISTICS

The Emulsiones Export range complies with the requirements of European standard UNE EN 13808 for cationic emulsions and with former article 213 of PG-3 [Ministerial Order of 27/12/99] for anionic emulsions.

/ ADVANTAGES

- Improvement in storage stability compared to traditional emulsions, improving sedimentation results.
- Emulsiones Export allow for storage for long periods, such as travel time in maritime transport, waiting times for loading and unloading at ports and ground transport over long distances.
- They are ideal for prolonged stocking during operations that require it, as they can be transported and stored in IBC containers, flexitanks or traditional tanks.

