

Tail Emergency Sealant for shielded TBMs

DESCRIPTION



TamSeal ES90 Emergency Seal is a highly effective, water reactive tail sealant product for exceptional situations, dealing with unusually high water or grout leakages through the sealing system of shielded tunnel boring machines (TBM). TamSeal ES90 has been specially designed for leak proofing where damages to the tails seals are encountered. The material reacts with the water present and seals leaks through the damaged sealing system. TamSeal ES90 is compatible with TamSeal TG66 and TamSeal TG91 tail sealants and is applied into the wire bushes using the same grease pumping system.

KEY BENEFITS

- › Effective leak proofing
- › Excellent bonding properties in the presence of water
- › Excellent resistance to water
- › Highly water reactive to form a water washout resistant seal
- › TamSeal ES90 does not damage the wire brushes
- › Compatible with TamSeal TG66 and TamSeal TG91
- › Excellent adhesion properties
- › Excellent pumpability
- › Bio-degradable and non-toxic

TECHNICAL DATA

TamSeal ES90 Emergency Seal	
Odour	None
Colour	Off-white / beige
Form	Homogenous, fibrous paste
Density at 23°C	1.2 ± 0.1 (g/cm ³)
Consistency at 23°C	320 - 350 (1/10mm)
Water absorption to firmness	< 100s

All technical data stated herein is based on tests carried out under laboratory conditions.

Whilst any information and/or specification contained herein is to the best of our knowledge, true and accurate, we always recommend that a trial be carried out to confirm suitability of the product. Please note regional climatic conditions may cause a variation in the performance of the product. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives, agents or distributors. The information in this data sheet is effective from the date shown and supersedes all previous data. Please check with your local Normet office to confirm that this is current issue.

APPLICATION GUIDELINES

The application of TamSeal ES90 uses the same grease pumping system as the tail sealant driving grades TamSeal TG66 and TamSeal TG91. TamSeal ES90 is to be pumped in the same way as TamSeal TG91 / TamSeal TG66, while the TBM moves forward until the machine reaches a more stable zone or station that allows for the tail seal brushes to be repaired.

For the best application outcome, the process should be supervised by Normet product experts.

PACKAGING

TamSeal ES90 is supplied in 200 kg and 60 kg metal drums, being suitable for the standard press plate pumping system installed in TBMs. Other packaging may be available upon request.

STORAGE

TamSeal ES90 should be stored at room temperature (min 5°C and max 40°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of six months can be expected. TamSeal ES90 should be conditioned to the appropriate temperature before use.

HEALTH & SAFETY

TamSeal ES90 should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.