

Application Instructions

Self-Adhesive Road Marking Tapes (BLE IL · Deltaline · related ranges)

NTS road marking tapes are self-adhesive temporary marking tapes suitable for application on all standard, old and new road surfaces and pavements, with high visibility even in wet and adverse weather conditions. The scrim under the tape facilitates clean removal. All tapes comply with DIN EN 1436 (requirements for road markings and test methods).

Choosing the right tape for the traffic load and intended service life is critical. Only new marking tapes may be used; reuse of previously installed tape is not permitted and invalidates the warranty.

Substrate exceptions. Surfaces such as Ralumac are excluded from the warranty as they can lead to adhesive failure. For temporary marking on open-porous asphalt (OPA), use profiled NTS Deltaline tapes.

Agents that form a salt film on the road surface must be removed before laying the tape, otherwise adhesive failure may occur. Once the surface is clean and the tape is applied per these instructions, subsequent salting of the road will not restrict adhesion.

APPLICATION PROCEDURE

1. **Dry surface.** The road surface must be completely dry. There must be no precipitation on the road section in question for the 24 hours prior to tape application.
2. **Watch for dew.** Dew formation can introduce moisture to the road during night-time marking, which can cause adhesive failure. Account for this when planning.

Note: Any work the installer performs to improve local conditions — e.g. drying a damp surface with a hot-air dryer — is the installer's responsibility. Special procedures must be recorded in the self-monitoring protocol.

3. **Clean the surface.** Remove dirt, dust, oil, wax, grease, salt, sand and other soiling. On new concrete roads, remove the concrete slurry using a high-pressure water process at least 48 hours before laying the tape.
4. **Avoid damaged areas.** The tape must not be applied on joints, seams or damaged road surfaces.
5. **Pre-marking.** Use silver bronze or similar for pre-marking, applied approximately 1 – 2 cm beside the intended tape position so the marking does not show from under the tape.
6. **Document conditions.** Before installation, record on-site weather data using suitable measuring equipment and document it in the self-monitoring log.
 - Air and ground temperature: at least **+5 °C**
 - Humidity: must not exceed **80 %**
 - Record the lot number (Batch #) from the packaging or roll core in the protocol

The completed self-monitoring report must be returned to NTS within **8 days** of installation as part of the warranty validation process.

7. **Apply primer.** Apply NTS Primer P-20 with the NTS Primer Cart on both sides, 2 cm beyond the edge of the tape. Consumption is approximately **0.25 L/m²**. Drying time is 3 – 15 minutes depending on outside temperature and humidity.
 - Install the tape only after the primer has dried sufficiently to no longer pull threads
 - Verify dryness with a finger test
 - Use only NTS Primer P-20 — alternative primers are not permitted
 - NTS-approved installation tools are recommended; they are designed specifically for this tape
8. **Press / tamp the tape.** After laying the tape on the primed surface, press it down with a Tamper Cart (pressure roller). Roll over the tape slowly and evenly **three times**.

The Tamper Cart must have a minimum load of **90 kg** to generate the required contact pressure. If this requirement is not met, the tape may detach, which will invalidate the warranty. Vehicle tyres are **not** a substitute — they cannot generate the necessary pressure.

DURABILITY

The longevity of the tape depends primarily on professional installation. To maximise service life:

- Select the correct traffic class for the application site
- Check and clean the road surface thoroughly



Optimum durability is only guaranteed when these factors are observed.

REMOVAL

The tape can usually be removed manually without leaving residue when correctly applied. Practical experience shows that careful warming under certain weather conditions can ease removal.

Do **not** use open flames, solvents, or water jets to remove the tape.

SHELF LIFE & STORAGE

Tape (unopened)	Use within 12 months of purchase
NTS Primer P-20	Use within 6 months of purchase
Storage — both products	Dry, cool, frost-protected rooms
Storage — primer specific	Well-ventilated, frost-protected, away from sunlight and heat sources
Primer hazard classification	UN 1263, Class 3 (flammable liquids) — store and handle per applicable hazardous-substance regulations

SAFETY — PRIMER HANDLING

NTS Primer P-20 is irritating to eyes and skin. Observe these precautions:

- Keep away from naked flames, sparks, and other ignition sources
- Vapours can cause irritation and health problems — provide ventilation
- Avoid direct contact with eyes and skin
- Open flames and smoking are prohibited during processing

First aid:

- **Eye contact:** rinse immediately with plenty of water and seek medical advice
- **Skin contact:** wash with plenty of soap and water
- **Ingestion:** do **not** induce vomiting — seek medical help immediately

Always keep containers tightly closed and store cool, dry, and well-ventilated, away from direct sunlight and heat sources. Refer to the NTS Adhesive Primer P-20 datasheet and the full Safety Data Sheet before handling.

GENERAL NOTES, DISPOSAL & WARRANTY

Road marking tape is usually installed on contractually agreed dates which are not always aligned with the weather conditions required by these installation guidelines. The risk of limited durability cannot therefore be attributed solely to the installer — weather conditions at the time of installation are a significant factor that must be considered.

Disposal. The end-user is solely responsible for proper disposal of the product in accordance with local regulations. NTS assumes no liability for environmental or legal consequences resulting from improper disposal.

Warranty & liability. Before use, the customer must verify that the product is suitable for the intended purpose. Warranty and liability are governed by the General Terms and Conditions of Sale of Nordic Traffic Safety GmbH; relevant statutory provisions take precedence. Proof of professional installation in accordance with these instructions — including a completed self-monitoring protocol — is mandatory for warranty claims.

These application instructions are issued by Nordic Traffic Safety GmbH. They form part of the conditions for warranty validation on NTS road marking tape installations and must be followed in full by the installer.