

Planigrout 950

Epoxy Urethane Injection Cable Grout



DESCRIPTION

Planigrout® 950 is a two-component, flexible, epoxy-urethane injection grout specifically developed for cable-stayed bridge applications. It is suitable for the injection of sheaths of prestressed cables, strands of suspension, and the protection of anchorage tie rods.

FEATURES AND BENEFITS

- Easy-to-use, two-component system
- Aggregate-free formulation
- High fluidity for injection applications and small areas
- Slow-set even at high temperatures up to 90°F (32°C)
- Very flexible at low temperatures down to -20°F (-29°C)

WHERE TO USE

- For injection of cable-stayed bridge applications
- Protection for anchorage tie rods

SURFACE PREPARATION

- Before application, ensure that the surface is free of any substance that could interfere with the bond of the installation material, including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form-release agents, laitance, loose toppings, foreign substances and adhesive residue.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. Acclimate the *Planigrout 950* components to between 65°F to 85°F (18°C to 29°C) before mixing.
2. *Planigrout 950* is a two-component product, with no additional ingredients required. Do not add water or thin the material with solvents.
3. Stir individual components separately before combining them. Using a low-speed mixer, mix Part A with Part B together thoroughly for 3 minutes until achieving a uniformly mixed material. Stop after about a minute to scrape excess material from the sides of the mixing container. Mix to a smooth, homogenous consistency. Do not mix at high speeds, which can trap air within the mixed material. A volumetric mixer is highly recommended for large jobsite applications.
4. Only mix as much material as can be applied within the pot life. Temperatures higher than 95°F (35°C) and/or mixing a large volume of material at a time can greatly reduce the pot life of epoxy.

PRODUCT APPLICATION

- The product is applied by using injection pumps or by gravity casting, depending on the application and jobsite conditions.

Consult MAPEI's Technical Services Department for installation recommendations regarding uses not listed.

CLEANING

- Clean tools and protective gear with solvent. Cured material can only be mechanically removed.

LIMITATIONS

- The temperature of the support and the air at the time of application and polymerization should be between -20°F and 95°F (-29°C and 35°C), with relative humidity of no more than 95%, with no condensation.

Product Performance Properties

| Laboratory Tests | Results |
|---|-----------------------------|
| Mixing ratio of Parts A and B by weight | 25% to 75% |
| Solids content | 100% |
| Density – ASTM D2393 | |
| Part A | 1.099 g per cm ³ |
| Part B | 0.965 g per cm ³ |
| Mixture | 0.991 g per cm ³ |
| Viscosity – ASTM 2556 | |
| Part A | 3413 cps |
| Part B | 898 cps |

| | |
|---|---------------------|
| Mixture | 904 cps |
| Hardness test, 7D, at 73°F (23°C) – ASTM D2240 | |
| Shore A | 9 |
| Shore D | 4 |
| Hardness test, 14D, at 73°F (23°C) – ASTM D2240 | |
| Shore A | 11 |
| Shore D | 3 |
| Tensile tests, 28D, at 73°F (23°C) – ASTM D638 | |
| Strength | 7.0 psi (0.048 MPa) |
| Elongation | 28% |
| Tensile tests, 28D, at 57°F (14°C) – ASTM D638 | |
| Strength | 7.2 psi (0.050 MPa) |
| Elongation | 39% |

Shelf Life and Product Characteristics

before mixing

| | |
|------------|--|
| | |
| Shelf life | 2 years when stored in original, unopened packaging at 73°F (23°C) |
| Storage | Store in dry place at between 50°F and 95°F (10°C and 35°C). |

Protect containers from freezing in transit and storage. Deliver all materials at least 24 hours before work begins for acclimation.

Application Properties

at 73°F (23°C)

| | |
|----------------------------|----------|
| | |
| Pot life | ~5 hours |
| Gel time, 60 g – ASTM C881 | 16 hours |

Packaging

| | |
|----------------------------------|--|
| Size | |
| Part A: 1.12 U.S. gals. (4.24 L) | |
| Part B: 3.88 U.S. gals. (14.7 L) | |

Approximate Coverage*

per Parts A and B mixed

| Yield |
|--------------------------------------|
| 0.67 cu. ft. (0.019 m ³) |

**Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to the support's conditions and setting practices.*

ADDITIONAL INFORMATION

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

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For the most current product data and BEST-BACKEDSM warranty information,
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