

TECHNICAL DATA

Product No.
41.145

LEYCOSIT-SP PLUG

NON-SHRINK, FAST-SETTING, HYDRAULIC CEMENT COMPOUND FOR CONCRETE PATCHING REPAIRS

DESCRIPTION

LEYCOSIT-SP PLUG is a specially designed, fast-setting, non-shrink, high-bond-strength, hydraulic cement compound for concrete patching and repair. LEYCOSIT-SP Plug stops flowing water in seconds and is used to seal cracks, tie holes, and other defects in concrete. The high performance characteristics of SP Plug are enhanced by LEYCOSIT's unique crystalline waterproofing technology.

RECOMMENDED FOR

- Stopping an active flow of water through cracks
- Repair of concrete substrates before the application of LEYCOSIT coating materials

ADVANTAGES

- Single component (simply add water)
- Fast setting: around three minutes at 21°C (water temperature will also directly affect set time)
- Excellent structural strength
- As durable as the masonry and concrete to which it is applied.
- Non-metallic (won't rust or deteriorate)
- Non-toxic

PLUGGING INSTRUCTIONS

1. **Preparation** Rout out crack or hole by chiseling or chipping to a minimum depth of 25 mm. Form a square or dovetail shaped rout (do not use a "V" shaped rout). Flush away all loose materials and dirt from the cavity with water and a stiff brush.

2. **Mixing** Add 1 part water to 3.5 parts SP Plug by volume and mix to the consistency of a stiff putty. Do not mix more than can be used in 3 minutes. For best results, water temperature should be approximately 15°C - 20°C.

Note: When using LEYCOSIT-SF for increased bonding and compressive strength, blend LEYCOSIT-SF with water, generally at a ratio in the range of one part LEYCOSIT-SF to 5 - 10 parts water. Then mix 1 part liquid with 3.5 parts SP Plug by volume.

3. **Plugging** Mix as above and form plug with gloved hand to desired shape. Allow to harden for at least 30 minutes. Place plug into rout and compress with hammer and block. When sealing cracks, begin at the highest point and work down.

Note: Where there is a high volume of water flow due to extreme hydrostatic pressure, a bleeder hose may be necessary to relieve the water pressure while sealing the repair area. Follow these steps:

- With a concrete chisel and hammer (or chipping gun), cut open a cavity at the point of greatest water flow.
- Place a stiff section of hose or pipe into the cavity and secure in place with SP Plug to force water through the hose. This relieves the pressure so that the area can be patched. Allow a minimum of 24 hours for hardening.
- Remove bleeder hose and plug remaining hole.

PATCHING INSTRUCTIONS

1. **SURFACE PREPARATION** Rout out faulty concrete until sound substrate is reached. Remove all loose materials from area and saturate with clean water. Allow water to be absorbed into the concrete, then remove excess water.

2. **MIXING** For fast repairs to concrete or masonry, add water to SP Plug powder (1.5 parts water to 4 parts powder by volume). Mix to a workable mortar consistency and trowel on as required. For large repairs, mix 1 part SP Plug with 2 parts mason sand or small aggregate (or 10 mm minus crushed stone). Maximum ratio is 13.5 kg to one 20kg bucket of SP Plug. Where increased bonding is required, use LEYCOSIT-SF (or suitable bonding agent) as directed.

ABNORMAL TEMPERATURES

Set time is affected by temperature. When ambient temperature exceeds 30°C, it is recommended that the mixing water be chilled so that the as-mixed temperature of LEYCOSIT-SP Plug does not exceed 21°C. When ambient temperature is lower than 15°C, it is recommended that the mixing water be warmed.

PACKAGING

LEYCOSIT-SP Plug Concentrate is available in 4 kg, 10 kg, and 20 kg buckets.

STORAGE

LEYCOSIT products must be stored dry at a minimum temperature of 7° C. Shelf life is one year when stored under proper conditions.

COVERAGE

One 20kg bucket of LEYCOSIT-SP Plug will produce 0.015 cubic metres of mortar.

TECHNICAL SERVICES

For more instructions, alternative application methods, or information concerning the compatibility of the LEYCOSIT treatment with other products or technologies, contact the Technical Department of LEYCOCHEM.

SAFE HANDLING INFORMATION

LEYCOSIT is alkaline. As a cementitious powder or mixture, LEYCOSIT may cause significant skin and eye irritation. Directions for treating these problems are clearly detailed on all LEYCOSIT buckets and packaging. The Manufacturer also maintains comprehensive and up-to-date Material Safety Data Sheets on all its products. Each sheet contains health and safety information for the protection of your employees and customers. Contact the Technical Department of LEYCOCHEM, or refer to our internet website www.leyde.com to obtain copies of Material Safety Data Sheets prior to product storage or use.

If discomfort continues, seek prompt medical attention. Wear eye protection. If dry powder or wet mixture gets into eyes, flush immediately and thoroughly with water and seek medical aid. Wear a suitable mask where there is potential for generating dust. If LEYCOSIT is ingested, do not induce vomiting; have affected person drink two glasses of water and obtain immediate medical attention.

REMARK

Whilst information and/or specification contained herein is to the best of our knowledge true and accurate, and is based on many years experience, we cannot accept any liability either directly or indirectly arising from the use of our products, whether or not in accordance with any advice, specification or recommendation given by us, as we have no direct or continuous control over how or where our products are applied.

LEYDE-PRODUCTS are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale.