

HOJA DE DATOS DEL PRODUCTO

SikaGrout®-300 PT MX

High-performance, zero-bleed, sand-free, cementitious grout for post-tensioned structures

DESCRIPCION DEL PRODUCTO

SikaGrout®-300 PT MX is a non-shrink, cementitious grout with a unique 2 stage shrinkage compensating mechanism. It is non-metallic and contains no chlorides. With a special blend of shrinkage-reducing and plasticizing/water-reducing agents, SikaGrout®-300 PT MX compensates for shrinkage in both the plastic and hardened states.

USOS

SikaGrout®-300 PT MX is used:

- For horizontal and vertical grouting of ducts within bonded, post-tensioned structures
- To grout and fill or repair voids within ducts of post-tensioning strands for corrosion protection
- For grouting with tight clearance requirements

CARACTERISTICAS / VENTAJAS

- Sand-free, allowing for filling and repairing of voids within ducts of post-tensioned structures
- Does not contain aluminium powder or any components which generate hydrogen gas, carbon dioxide or oxygen
- Silica fume enhanced for low permeability

- For additional protection, substitute 74 mL of mixing water with 74 mL of Sika® Ferrogard®-901 for each 22.68 kg bag of SikaGrout®-300 PT MX
- Easy to use, just add clean potable water
- Non-metallic, will not stain or rust
- Zero bleeding, even at high flow
- Low heat build-up
- Excellent for pumping. Does not segregate even at high flow and no build-up on equipment or hoppers
- Non-corrosive, does not contain chlorides
- Superior freeze/ thaw resistance

INFORMACION AMBIENTAL

- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization - Environmental Product Declarations
- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization - Material Ingredients
- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization - Sourcing of Raw Materials

CERTIFICADOS / NORMAS

- Meets CRD C621 and ASTM C1107 (Grade C) requirements
- Shows positive expansion when tested in accordance with ASTM C827

INFORMACION DEL PRODUCTO

Base Química	Portland cement
Presentación	22.68 kg (50 lb) bag
Conservación	9 months from date of production
Condiciones de Almacenamiento	Store properly in dry conditions in undamaged and unopened original sealed packaging
Apariencia / Color	Powder / Grey

Tamaño máximo del grano	None (sand-free)	
Densidad	~2.0 kg/L (125 lb/ft ³)	(ASTM C138)
Contenido de Ion Cloruro Soluble	< 0.08 % by weight of cementitious material	(ASTM C1152)

INFORMACION TECNICA

Resistencia a Compresión	1 day	3 days	7 days	28 days	(ASTM C942) MPa (psi)
	~ 20 (~2900)	~ 33 (~4700)	~ 46 (~6600)	~ 53 (~7600)	
Fisuración	0.0 % after 24 hours				(ASTM C1090)
Expansión	~0.2 % after 28 days				(ASTM C1090)
Resistividad Eléctrica	< 10 000 Ω. cm after 28 days				(ASTM C940)

INFORMACION DE APLICACIÓN

Proporción de la Mezcla	5.44 litres to 6.15 litres of water per 22.68 kg bag (1.44 - 1.62 US gal. of water per 50 lb bag)
Rendimiento	1 bag yields approximately 14.1 litre of mortar (0.50 cu.ft/ bag)
Temperatura Ambiente	Minimum : +5 °C / Maximum : +38 °C
Temperatura del Soporte	Minimum : +5 °C / Maximum : +38 °C
Vida de la mezcla	~60 minutes

NOTAS

Los usuarios deben referirse siempre a la versión local más reciente de la Hoja Técnica del Producto cuya copia será suministrada al ser solicitada.

LIMITACIONES

- Minimum application thickness: 3 mm
- Maximum application thickness (neat): comply with PTI (Post-Tensioning Institute) specification for grouting of post-tensioned structures.
- Do not use as a patching or overlay mortar or in unconfined areas
- Material must be placed within 60 minutes of mixing
- As with all cement-based materials, avoid contact with aluminium to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminium bars, rails, post, etc. with an appropriate epoxy coating.
- Minimum ambient and substrate temperature +5 °C (41 °F) and rising at time of application. For lower temperature, refer to the Post-Tensioning Institute (PTI) Guide Specification for Grouting of Post-Tensioned Structures, dated February 2001.
- Maximum ambient and substrate temperature is +38 °C (100 °F) at the time of placement. For higher temperatures, refer to the PTI Guide Specification for Grouting of Post-Tensioned Structures, dated February 2001.

ECOLOGIA, SEGURIDAD E HIGIENE

Para información y recomendaciones sobre transpor-

te, manipulación, almacenamiento y eliminación de los productos químicos, por favor consulte la hoja de seguridad más reciente que contengan datos relativos a la seguridad física, ecológica, toxicológica y otros.

INSTRUCCIONES DE APLICACION

CALIDAD DEL SOPORTE PRE-TRATAMIENTO

Cable duct grouting

Ensure that ducts, openings, voids, inlets and outlets are clean and free of debris, fuel, oils, other contaminants and site debris at all times.

Other grouting applications

Remove all dirt, oil, grease, or any contaminants or conditions that may affect adhesion or overall product performances. Anchor bolts to be grouted must be degreased with suitable solvent which will not inhibit grout bonding. Concrete must be sound and roughened to promote mechanical adhesion. Prior to placing, surface should be brought to a saturated, surface-dry (SDD) condition. Ensure forms and ducts will retain grout without leakage.

MEZCLADO

For best results use a colloidal mixer. Alternatively, mechanically mix with a high-speed drill (2500 rpm) and *Jiffy* paddle. Mix for approximately three (3) minutes after the addition of the last bag or until a homogeneous mix is achieved. Continue to agitate material in the holding hopper to achieve optimum flow. The method of mixing may significantly affect the material properties, particularly flow. At higher temperatures, and/or with higher water amounts, the grout

will behave less thixotropically. Therefore, it may be more appropriate to measure the flow using the standard flow cone test (ASTM C939). The expected flux time is between 11 and 30 seconds under normal conditions.

Specific on site testing by the engineer is recommended to ensure that the mixing and placement methods result in the specified requirements.

Start by using 5.44 L (1.44 US gal.) of clean potable water per 22.68 kg (50 lb) bag of material. Add bag of material to mixing vessel. Add additional water as needed - a total maximum of 6.15 L (1.62 US gal.) per 22.68 kg (50 lb) bag - in order to achieve the flow specified. Ambient and material temperature should be as close as possible to +21 °C (70 °F). If higher, use cold water, if colder, use warm water.

APLICACIÓN

Make sure all forming, mixing, placing, and clean-up materials are on hand. The grout should be used within 60 minutes from the start of mixing. The method of pumping the grout must ensure complete filling of the ducts and complete surrounding of the strands or bar. A mock-up should be completed onsite and inspected by the engineer to ensure that the placement means and methods yield the specified results. When grouting ducts or other critical elements, it is highly recommended that experienced, trained technicians complete the work.

LIMPIEZA DE HERRAMIENTAS

Clean all the tools and application equipment with water immediately after use. Hardened/ cured material can only be mechanically removed.

RESTRICCIONES LOCALES

Este producto puede variar en su funcionamiento o aplicación como resultado de regulaciones locales específicas. Por favor, consulte la hoja técnica del país para la descripción exacta de los modos de aplicación y uso.

NOTAS LEGALES

La información, y en particular las recomendaciones relacionadas con la aplicación y uso final de los productos Sika, se proporcionan de buena fe, con base en el conocimiento y la experiencia actuales de Sika sobre los productos que han sido apropiadamente almacenados, manipulados y aplicados bajo condiciones normales de acuerdo con las recomendaciones de Sika. En la práctica, las diferencias en los materiales, sustratos y condiciones actuales de las obras son tales, que nin-

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Hoja De Datos Del Producto

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