Product Data Sheet
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SikaGrout® 214-11 HS

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Shrinkage Compensated, High Early Strength, Cementitious Grout

Description	SikaGrout® 214-11 HS is a ready to use, shrinkage compensated, nor ferrous, high early strength, self-levelling, bearing grout. Pre-mixed and selectively graded materials result in a dense homogeneous mix.		
Uses	SikaGrout [®] 214-11 HS is designed to counteract the normal shrinkage of mortar and concrete and to absorb and minimize effects of vibration or foundations. The high early strength property is suitable for work that requires early loads including machine bases structural columns prestressed girders, bridge bearings, rail posts and seatings bolts etc.		
Advantages	■ Excellent flowability		
	■ Good dimensional stability		
	■ Controlled expansion		
	■ Chlorides-free; will not rust, bleed, or harm metal on contact		
	 High early compressive strength; allows earlier loading and minimizes costs 		
	 High early strength produces minimal downtime for maintenance and repairs 		
	Non toxic, non corrosive		
	Ready and easy to use		
	■ Economical		
Certificates	Local test report is available		
Product Data			
Form/Colour	Powder / Concrete grey		
Packaging	25 kg bag		
Storage	Dry, cool, shaded place		
Shelf life	Min. 6 months if stored properly in unopened, original packaging		
Technical Data			
Density	~ 1.60 kg/ltr (bulk density of powder) ~ 2.20 kg/ltr (density of fresh mortar)		



Mixing ratio	3.25 - 3.50 litres of clea	an water per 25 k	g bag
(Flowable consistency)			
Consumption	1 bag yields approx. 13 Approx. 77 bags requir		of mortar
Application	Minimum 10 °C		
temperature	Maximum 40 °C		
Minimum gap	10 mm		
Maximum gap	Please contact Sika Te	echnical Service D	Department
Performance (27°C / 65 % r.h)	Properties	Value	Standard
	Water content	13 - 14 %	
	Flow Table Spread	25 - 32 cm	ASTM C230-90, no strokes
	Bleeding	Nil	ASTM C940 - 89
	Expansion (at 3h)	≥ 0.1%	ASTM C940 - 89
	Initial setting time	≥ 5 h	ASTM C403 – 90
	Final setting time	≤ 12 h	ASTM C403 – 90
Compressive strength (27 °C)	1 day	≥ 40 N/mm ²	ASTM C349 / C109
	3 days	≥ 60 N/mm ²	ASTM C349 / C109
	7 days	≥ 70 N/mm ²	ASTM C349 / C109
	28 days	≥ 80 N/mm ²	ASTM C349 / C109
Application			
Surface preparation	Concrete surfaces should be clean, sound and free from oil, grease, laitance and loose particles.		
	grease.		be free from scale, rust, oil and horoughly, but no standing water.
Mixing	Powder should be added to the pre-gauged water to suit the desired consistency.		
	(max. 500 r.p.m.) with a is achieved.	a disc agitator atta	s with a low speed electric drill ched, until a smooth consistency ed action basket/pan type mixer
Application	allowed to escape. Whe cient pressure head is	nen carrying out b s maintained to k	air entrained into the grout is ase plate grouting, ensure suffi- teep mortar flow uninterrupted. irmly in place and watertight. To

	achieve optimum expansion result, apply mortar as quickly as possible
	Grouting of machine beds
	Pre-wet thoroughly, no standing water in bolt holes. If possible, grout anchor first, and the mortar bed in the second operation. Ensure continuous flow of mortar.
	Grouting base plate
	Prewetting for approx. 24 hours, no standing water. Maintain constant hydro-static pressure to continuous flow. Use steel rods or chain to make sure that all cavities are filled. Make sure that entrapped air can escape easily.
	Grouting of large cavities / large volume Please contact Sika Technical Service Department for further advice
Curing	Keep visible, free mortar surface as small as possible and protect it from premature drying out by standard curing practice (keep moist, cover with wet hessian, use of curing compound e.g. Antisol E)
Cleaning	Clean all tools and equipment with water immediately after use. Hardened mortar can only be removed mechanically.
Notes on application/Limits	Minimum application temperature is 10°C. At temperature lower than 20°C setting time and strength gain will be slower.
	Normal curing practice should be observed for at least 3 days wherever mortar is exposed.
Health and Safety informa	ition
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Ecology	Do not dispose into water
Ecology Transportation class	Do not dispose into water Non-Hazardous
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Sika Limited (Vietnam) Nhon Trach 1 Industrial Zone, Nhon Trach Dist., Dong Nai Province
Tel: (84-61) 3560 700 Fax: (84-61) 3560 699
www.sika.com.vn, sikavietnam@vn.sika.com

