

ROCK DURE 24 HS

High Strength Pourable Epoxy Resin Grout

PRODUCT DESCRIPTION	Rock Dure24 HS is a 3 component pourable or cast able grout based on solvent free epoxy resin and selected aggregates. Rock Dure24 HS cures to form a hardened mortar with excellent adhesion to many substrates. This combined with the product's ease of application makes it ideally suited to site application.	
USES	<p>Rock Dure24 HS is a high strength, shrinkage free, self levelling epoxy grout suitable for:</p> <ul style="list-style-type: none"> □ Bridge bearing plates. □ Machine bases. □ Mechanical bridge joints. □ Fixing bolts and anchors □ Tire less crane rails, rails in tunnels and on bridges □ Reinforcement □ And to fill cavities in concrete. □ As a self-smoothing mortar for repairing and patching horizontal surfaces 	
ADVANTAGES	<ul style="list-style-type: none"> □ Good flow characteristics even in thin layers. □ Suitable for both, dry and damp substrates. □ Shrinkage-free hardening. □ Curing is not affected by high humidity. □ High mechanical strengths. □ Tough vibration-resistant material. □ Insensitive to moisture during application, cure or whilst in service □ Insensitive to moisture during application, cure or whilst in service □ Applicable at low temperatures down to 5°C □ High early strength □ Easily applied □ Unaffected by wide range of chemicals and oil etc. □ Excellent adhesion to a wide variety of dry and damp substrates such as concrete, stone, fibrous cement, synthetic resins, wood and most metals. 	
PRODUCT DATA	Grey (Mix)	
COLOUR	Comp. (A): yellowish, Comp. (B): brownish, Comp. (C): grey.	
PACKAGING	15 kg , net pre-proportioned kit	
STORAGE	Store at temperatures between + 5°C and +30°C, in dry conditions	
SHELF LIFE	24 months from date of production if stored properly in original unopened packing.	
TECHNICAL DATA		
DENSITY (20°C)	Comp. (A):	1.1 kg/l
	Comp. (B):	1.0 kg/l
	Comp. (C):	1.7 kg/l (bulk density)
	Comp. (A+B+C) :	2.0 kg/l (mixed mortar)
COEFFICIENT OF THERMAL EXPANSION	24.5 x 10 ⁻⁶ (Temperature range -20°C to + 60°C).	
MECHANICAL STRENGTHS	<ul style="list-style-type: none"> ▪ Compressive strength ▪ Flexural strength ▪ Tensile strength ▪ Bond strength to concrete ▪ Bond strength to Steel 	<p>60 - 70 N/mm² (1 Day) ~90 N/mm² (7 Days)</p> <p>~30 N/mm² (7 Days) ~14 N/mm² (7 Days) ~4 N/mm² (Concrete Failure) ~20 N/mm² (DIN 53232)</p>
MODULUS OF ELASTICITY (static)	13,000 MPa approx.	
APPLICATION MIXING RATIO	Comp. A: B: C = 2.52: 0.48: 12 parts by weight.	

SURFACE PREPARATION	All surfaces must be sound clean, free from oil, grease, laitance, old coatings, frost, standing water and all loosely adhering particles. For good bond sand, water blast, grind or scabble substrates.
PRIMING	Primer is not required
MIXING	Sikadur-42HS is supplied in factory proportioned units comprising the correct quantities of Part A (Resin), Part B (Hardener) and Part C (Aggregate). Thoroughly stir Parts A and B separately using a slow running drill stirrer with a spiral mixer (max. Speed 250 rpm). Decant all of Part B into Part A and mix thoroughly together until a uniform mix is achieved (typically 3 mins). Continue to mix whilst adding Part C slowly. Ensure the attainment of an even color and an even distribution of aggregate throughout the mix. Do not exceed 250 rpm. Allow to stand for 2-3 minutes to release any entrained air.
APPLICATION	Mixed Rock Dure24 HS should be poured into the void or formwork from one side to avoid the entrapment of air. Continuous grout flow is essential and there must be sufficient grout available before pouring. Machine Base Plates & Crane Rails: An adequate head must be maintained to ensure continuous flow. Continue pouring until the grout rises above the level of the plate. At no time during application should the grout head be less than 75 mm above the level of the plate. This, as well as adequate vent holes, is essential to ensure no air is trapped. Anchor Bolts and Dowels: For bolts placed into pre-formed holes, fill the hole with Rock Dure24 HS and place into the grout.
CLEANING	Clean all tools and equipment immediately after use with Cleaner.
POT LIFE (15 KG MIX.)	30 min at 25°C
IMPORTANT	<ul style="list-style-type: none"> ☐ Maximum thickness per layer: 5 - 6 cm. Do not apply Rock Dure24 HS to surfaces with standing water. ☐ Do not part mix containers. Only mix as much as can be applied within the stated pot life. ☐ Do not dilute the product with solvent as this will affect both the cure and in-service performance. ☐ Constant in service temperatures >70°C may affect the performance of the product. ☐ Do not apply in large areas unless a damp proof membrane is in place. If applying in layers' subsequent layers must be applied within 24 hours of the first layer being applied and after the previous layer has cooled to ambient temperature. ☐ Minimum age of new concrete, 3 to 6 weeks. ☐ The temperature at which the Rock Dure24 HS is stored during the 24 hours before it is mixed will govern its pot life when mixed. Rock Dure24 HS will rise in temperature when mixing. The extent of this temperature rise will depend upon the volume to surface ratio and the ambient and substrate temperature. ☐ Compressive strengths etc. Of epoxy resins must be qualified by the testing method e.g. Test Standard or size of specimen under test and the rate at which the test piece is loaded while under test, as these factors will affect the result markedly faster loading rates will generally give higher ultimate loads and vice versa. Also a specimen at lower temperature will show higher strengths and vice versa.
SAFETY INSTRUCTIONS	
ECOLOGY	Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
TRANSPORT	Comp. A/C: Non-hazardous. Comp. B: 8/66 c).
SAFETY PRECAUTIONS	Avoid contact with the skin, eyes and avoid breathing its vapor. Wear protective gloves when mixing or using. If poisoning occurs, contact a doctor or Poisons Information Ce If swallowed, do NOT induce vomiting. Give a glass of water If skin contact occurs, remove contaminated clothing and skin thoroughly. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
TOXICITY	Comp. A/B: Class. 4, under the relevant Swiss health and safety codes. Comp. C: Non-toxic under the relevant Swiss health and safety codes.



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