

CONSTRUCTION

ROCK DURE 14

Epoxy Resin Patching Mortar

PRODUCT	Rock Dure 14 is a solvent-free, three-component, thixotropic patching mortar based on a				
DESCRIPTION	combination of epoxy resins and selected	i qualiz aggregates.			
USES	 Rock Dure 14 contains a medium degree of aggregates filling and therefore can be used in a number of varying applications: As repair and bonding mortar on stone, concrete, mortar, rendering, steel,iron, wood etc. For vertical and overhead filling of cavities. As repair mortar for damaged concrete joint edges and concrete roads. As abrasion resistant and impact resistant wearing Layer. For structural bonding of wide joint. 				
ADVANTAGES	Rock Dure 14 is available in three different grades of reactivity: normal, rapid and long pot life. Other benefits are: Rapid hardening according to grade used. Suitable for both, dry and damp substrates. Shrinkage-free hardening. Curing is not affected by high humidity. Good adhesion to concrete. High mechanical strengths. Abrasion and impact resistant. Components of different colours (mixing Control).				
	Grov (Comp. (A) : white Comp. (B) : blo	ok Comp (C) · cond)			
PACKAGING	10 Kg units (A+B+C). 10 Kg pails (A/B). 30 Kg pails (A/B). 25 Kg bags (C)	ж, сотр. (с) : запа).			
STORAGE	Store at temperatures between +5°C and +30°C				
SHELF LIFE	24 months from date of production if stored properly in original unopened packing.				
TECHNICAL DATA DENSITY (20°C)	Comp. (A): 1.7kg/l. Comp. (B): 1.7kg/l. Comp. (C): 1.5 kg/l (bulk comp.) Comp. (A + B + C): 2.0 kg/l (m)	ilk density). ixed mortar).			
COEFFICIENT OF THERMAL EXPANSION	26×10^{-6} per °C (temp. range -10°C to +4	0°C).			
MECHANICAL STRENGTHS	Compressive strength (ASTM-D-695) Normal type: After 24 hrs. at + 20°C: Rapid type: After 24 hrs. at + 5°C: L P. type: After 24 hrs. at + 20°C:	lormal/Rapid Type: after 10 days at + 10-20° after 65 - 75 N/mm ² 45 - 55 N/mm ² 40 - 50 N/mm ²	L.P. Type: 10 days at + 20-30°C 55 -65 N/mm ² 40 - 50 N/mm ²		
	 L.P. type: After 24 hrs. at + 30°C: Flexural strength (ASTM-D-790) Tensile strength (ASTM-D-638) Bond strength to concrete (DIN 53232) Bond strength to Steel 	25 - 35 N/mm ² 10 - 15 N/mm ² concrete failure 10 - 15 N/mm ²	20 - 30 N/mm ² 10 - 15 N/mm ² concrete failure 10 - 15 N/mm ²		
MODULUS OF ELASTICITY (STATIC)	9' 000 N/mm ² .				

APPLICATION						
DETAILS						
COVERAGE	1 m ² : approx. 2 kg (1 mm thickness).					
SURFACE	All surfaces mu	All surfaces must be clean, free from oil, grease, rust, scale, frost, standing water and all loosely				
PREPARATION	adhering particles. Cement laitance must be removed. Concrete must be 3 - 6 weeks old depending on climate, sand / water blasting, grinding, scrabbling are recommended.					
PRIMING	Primer is not required, except on damp concrete surfaces, where the use of Comp. (A+B) of the mortar as primer is recommended					
MIXING RATIO	Comp. (A: B:C) = 2:1:3 parts by weight Normal//Rapid/L.P.					
	2:1:4 parts by volume Normal//Rapid/L.P.					
MIXING	Mix components (A + B) together for at least 2 minutes with a low speed electric drill (max. 500 R.P.M.). until a smooth consistency and streak free color are achieved. Then add component (C)					
	and continue until mixing is homogeneous. Avoid entrapping air.					
APPLICATION	Apply directly to the prepared substrate by spatula, trowel or glove protected hand, depending on application. When working on damp substrates, it is advisable to prime first with Comp. (A+B) of the mortar.					
WEIHOD						
CLEANING	Clean all tools and equipment immediately after use with Cleaner.					
POT LIFE	°C	4 kg Normal	4 kg Rapid	10kgL.P.		
	40	-	-	~40min.		
	30	~ 20min.	~ 10 min.	~1hrs.		
	20	~ 1 hrs.	~ 30 min.	~2hrs.		
	10	~ 2 hrs.	~ 1hrs.	-		
	5	~ 3 hrs.	~ 1.5 hrs.	-		
IMPORTANT	Optimal workin	g temperatures for each gra	ade are:			
	Normal Type: 10°C - 30°C.					
	Rapid Type:	5°C - 15°C.				
	L.P. Type: 25°C - 40°C. When working at a higher temperature than recommended, the pot life will be shortened. Similar when working at lower temperatures, the material will become more difficult to apply and takes longer to harden. Where the working temperature will be above 45°C, please consult our Technical Service. Maximum thickness per coat: 6 cm.					
	Minimum age of new concrete: 3- 6 weeks, depending on climate.					
SAFETY						
	Components (A + B) contaminate water. Do not dispose of into water or soil but according to					
ECOLOGY	local regulations.					
TRANSPORT	Comp. A/C: No	n-hazardous.				
CAEETV	Cump. D Numial: 8/00 C).					
SAFETT DDFCAUTIONC	splashed into the eyes, flush immediately with plenty of warm water and seek medical attention without delay.					
PRECAUTIONS						
ΤΟΧΙCΙΤΥ	Comp. A/B: Class.4, under the relevant Swiss health and safety codes. Observe warning on packing. Comp. C: Non-toxic under the relevant Swiss health and safety codes.					
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