plasticmetal Model Ceram SET #0811

Product description

DIAMANT plasticmetal is a quick-curing polymer-bound metal repair system for the reliable filling of blow holes as well as small and medium-size defects. Due to its particularly high content of genuine metal fillers, plasticmetal exhibits a very good metal finish and can be machined and manually worked like metal.

As a freely combinable repair system, plasticmetal from DIAMANT adapts itself perfectly to every specific requirement.

14 metal powders and 6 hardening liquids can be invidually combined in the plasticmetal repair system and used for a specific application. The freely selectable mixing ratio allows varible viscosities from liquid to pasty. Particularly practical and economical: Also ideal when very small amounts are rquired, because mixed material can be stored without problems and is instantly available for subsequent work.

Characteristics

- hervorragender Metallcharakter
- sehr Gute Haftung auf allen Metallen und Legierungen
- beständig gegen chemisch aggressive Medien
- permanente Temperaturbeständigkeit bis +250°C (kurzfristig: bis +350°C)
- kurze Aushärtezeiten
- freies Mischungsverhältnis (Konsistenz: flüssig bis pastös)
- nach Aushärtung bearbeitbar wie Metall und lackierfähig

For best metal character after the processing

Typical application

DIAMANT plasticmetal is used to repair and correct voids, porosities, cavities, wear and tear on all cast iron, steel and metal alloys.

Pack sizes

Article	Description
X56 370g Pulver	
W06 650g Pulver	

Custom sizes on request.

Produktdaten Anlieferzustand

Hue component A (resin liquid) component B (hardener powder)	resin liquid: HF Standard # 0112 Model Ceram #0811B
Storabillity component A (resin liquid) component B (hardener powder)	18 months (+5°C - +20°C) 60 Months (+5°C - +20°C)
Density	Spec. weight [g/cm²] 2-2,5
Mixing ratio Harz / Härter [Volumen]	at least 1:1 (resin liquid : powder) Maximum 3:1 (powder : liquid) Varies according to desired viscosity
Pot life	The drip time depends on the amount of hardener powder used.
Curing (volle Belastung) [chemisch]	The curing time is 20 minutes at an application temperature of 20°C. The curing time depends on the application temperature and may vary.

Product data (reactive product)

Density	2 g/cm³	
Compressive strength	160 N/mm²	DIN53454
Strength	87	
Tensile strength	86 N/mm²	DIN53455
Tensile shear strength	35 N/mm²	DIN53283
Flexural strength	95 N/mm²	DIN53452

E-Modul	14500 N/mm²	DIN5357
Temperature resistance (permanent)	160 °C	
Temperature resistance (briefly)	220 °C	
colour	Ceram	
Metal content	92 %	
impact strenght	4.8 N/mm²	DIN53453
heat conductivity	0,7-0,9 W/mK	DIN53612
Hardness	87-89 Shore D	DIN53505

Storage/ shelf life

Store in the original, unopened container in a dry, cool and frost-free place (5°C-+20°C). Shelf life 12 months. Protect froom direct sunlight. Higher temperatures reduce the shelf life.

Preparation of the liability surface

Roughen liablility surfaces and clean with DIAMANT cleaner. The surface must be dry and clean. The working temperature must be within the optimum temperature range between +5/+45°C.

Processing

Mix the powder and the hardener liquid in a volume ratio of at least 1:1 (liquid, pourable consistency). By adding powder, the consistency can be adjusted from pourable to pasty spatulatable. The maximum mixing ratio is 3:1 (powder : liquid).

Application description

Apply a thin adhesive layer firmly to the liability surfaces with a spatula. Roughen the rest roof-shaped without trapping air.

Curing

The curing time depends on the amount of hardener used and varies from 5 to 60 minutes.

Disposal

Unused residual material from the cans, if mixed in the correct mixing ratio and completely cured, can be disposed of normally (EAKV 170203). Unmixed material must be disposed of as a chemical waste (EWC 080111).

Safety data sheet

Please read the relevant safety data sheet before processing the product. Safety data sheets are available daily on request via info@diamant-polymer. de or by phone at +49-2166-98 360. DIAMANT guarantees the product characteristics as long as they are stored and used according to the specifications listed here. DIAMANT assumes no responsibility for the processing of the material. For further questions, our technicians will help you.

Werteintragung

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This issue replaces all previous versions