

Technical Information

Product Name:	16xxx Kitchen & Bath Repair Kit
Manufacturer:	Cramer GmbH chemisch-technische Erzeugnisse Salzstrasse 8 A D 85622 Feldkirchen
Picture:	

Description of Material

Material Composition:	2-component filler and hardener, 1-component repair spray.			
Use:	Repair of dented and chipped sinks, basins, shower- and bathtubs made of porcelain, ceramics and acrylic.			
Material characteristics:	With the Cramer Repair-Kit, damages can be repaired quickly and effortlessly. For professional repair work that requires simple use and shows perfect results.			
Colours:	Order-No.	colour	Order-No.	colour
	16002	pure white W 17	16222	jasmin mat
	16005	star white	16250	bahama beige
	16010	edelweiss mat	16480	curry
	16040	kohler white	16500	whisper pink
	16070	american-standard white	16621	creta
	16080	alpine white / european white	16650	bermuda blue
	16200	pergamon	16710	ägäis / aguamar
	16203	soft cream	16740	moosgrün
	16205	biscuit	16745	kaspischgün
	16210	indian ivory	16850	manhattan / sterling silver
	16220	almond / bone		

Intensity of Gloss:	Gloss and Mat
Density:	Enamel Spray: 0,80g/cm ³ at 20°C Filler: 1,75g/cm ³ at 20°C Hardener: 1,15g/cm ³ at 20°C

Use of solvents:	Do not use thinner
Packaging:	The Repair-Kit consists of: 1 container of filler 30g 1 tube of hardener 8ml 1 aerosol spray can of enamel 50 ml 1 spatula 2 pieces of sandpaper for ceramics / enamel (brown) 1 piece of sandpaper for acrylic (grey)
Storage:	Minimum temperature: 5°C Maximum storage temperature: 30°C, maximum short-term temperature: 40°C Shelf life for an unopened kit in a dry and cool place: 2 years Please follow local safety regulations.

Technical Information for Application

Application Surfaces:	Steel, cast iron, ceramics, enamel, acrylics
Materials needed:	Wire brush for rust spots Acetone or thinner Dust cloth Paper and masking tape Protective gloves and goggles car polish (if needed)
Preparatory work:	<i>To achieve perfect results and durability, it is vital to clean and prepare the work surface thoroughly. Please read the technical information provided in this leaflet carefully before starting the repair.</i> Remove rugs, towels, shower curtains etc. from your work area. Mask an area of 20 cm around the damaged spot with newspaper and masking tape.
Surface Preparation	<i>Please wear regular household gloves and goggles for the following steps:</i> Remove rust spots and loose particles with wire brush. Do <i>not</i> sand the surface. Then, clean damaged area with grease-free acetone or thinner.
Work with Spatula:	<i>Please wear household gloves for the following steps:</i> Only take as much filler as needed from the container and mix thoroughly with a small amount of hardener on a sheet of paper. Mixing ratio should be 30 parts of filler and 1 part of hardener. (walnut amount of filler to a pea amount of hardener). After mixing, spread the mixture thinly on the paper to remove any air bubbles. Then lift the solid mix with the spatula. Apply mix on the damaged area and smooth it with spatula. Application time: approximately three minutes. When working with porcelain, you can reinsert any of the chipped porcelain pieces. Let the area dry and harden for about 30 minutes. Then, sand down any uneven spots and remove the sanding dust. No ridges or holes should remain. <i>When working with acrylics or fibreglass please note the following differences:</i> The filler can only be used for the repair of chipped areas or deep scratches. Tension cracks or broken out areas cannot be glued. After filling the chipped or scratched area, sand down with the 800-grit wet sandpaper (grey) with water.
Spray work:	<i>Please wear household gloves for the following steps:</i> Shake spray can vigorously for three minutes before use. Try out on a sample area first. Apply spray thinly from a distance of about 15-20cm. Using a mask from a paper- or cardboard cut-out will facilitate smooth application (cut-out size should be similar to that of the damaged area). Hold mask about 1-2cm above damaged area while starting to spray on the paper/cardboard first and then moving across the cut-out to cover the damaged area. Apply second coat after one minute. Repeat until damaged area has been fully covered. Hint: You can remove spots of spray applied too thickly spray (e.g. drips) with grease-free acetone. The colour hues are based on original colours provided by the manufacturers of bathtubs etc. Application with acrylic products may show slight variations.
After repair:	The finished surfaces should not be exposed to water for four days, so it can harden 100%. The repaired area can be polished with regular car polish after hardening.
Capacity:	The repair material can be used for 5 average-sized repairs.
Workability:	Please make sure rooms are well ventilated. Application temperature of filler: 15°C min. Application temperature spray: 20°C min

	At unheated worksites, spray may be warmed up by keeping it in a pocket close to the body.
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Work Instructions				
Dry	dust protected	dry to the touch	fully dry	fully usable / Including warmth application
(21°C/65% r.F.)	20 minutes	2 hours	48 hours	4 days

Care and Use of repaired sanitary objects
Do not use concentrated or abrasive cleaners. No acrylic polish containing alcohol, no disinfections agents or organic solvents should be used, either.

Product Identification		
Contents:	<i>Filler:</i> Based on unsaturated polyester resins dissolved in styrene. <i>Hardener:</i> Dibenzoyl peroxide paste 50% in Diisobutyl phthalate plasticizer <i>Spray:</i> Preparation of active agent, solvent and propellant. Base: Acrylic resin	
Classification according to EEC directives:	<i>Filler 30g:</i> Risk-phrases: 10 Flammable. Safety-phrases: 1/2 Keep locked up and out of reach of children, 23 Do not breathe vapour, 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice <i>Hardener 8g:</i> Danger symbol and danger designation: O Oxidizing, Xi Irritant Risk-phrases: 7 May cause fire, 36 Irritating for eyes, 43 May cause sensitization by skin contact. Safety-phrases: 1/2 Keep locked up and out of reach of children, 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. <i>Spray 50ml:</i> Danger symbol and danger designation: F+ extremely flammable, Xi irritant Risk phrases: 36 Irritating to eyes. Safety phrases: 2 Keep out of the reach of children. 23 Do not breathe aerosol. 24/25 Avoid contact with skin and eyes. 46 If swallowed, seek medical advice immediately and show this container or label. 51 Use only in well-ventilated areas. 56 Dispose of this material and its container to hazardous or special waste collection point. Special labelling of certain preparations: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking.	
UN-No.:	<i>Filler & Hardener:</i> UN 3269	<i>Aerosol Spray:</i> UN 1950
Land transport ADR/RID:	<i>Filler & Hardener:</i> UN 3269 Polyester Resin Kit, class 3, limited quantities, in according with chapter 3.4 ADR, LQ 7 <i>Aerosol Spray:</i> UN 1950 Aerosols, class 2.1, number 5F, limited Quantities	
Maritime transport IMDG:	<i>Filler & Hardener:</i> IMDG-Class: 3 UN-number: 3269 EMS-number: 3-07 Instructions: 3269 Polyester Resin Kit, class 3, limited quantities, in according with chapter 3.4 IMDG Proper shipping name: Polyester Resin Kit Packaging group: III Package mark: UN 3269 LQ MARPOL: ----- Flashpoint: 32°C <i>Aerosol Spray:</i> IMDG-Class: 2.1 UN-number: 1950 EMS-number: F-D, S-U	

	Proper shipping name: Aerosols Packaging group: ---- Package mark: UN 1950 LQ MARPOL: ---- Flashpoint: ----
Disposal considerations:	Observe local regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

Our technical information is based on our practical experience as well as the current state of research. It is intended to support our customers, but it is not intended to establish any legally binding contract or any other obligations based on the purchase.

Our recommendations do not release the buyer from testing the products for suitability for their intended use. Other than that, our general business conditions apply

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