



HEMPADUR EASY 47700

47700: BASE 47709: CURING AGENT 97702

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| Description: | HEMPADUR EASY 47700 is a two-component high build pure epoxy paint which cures to a hard and tough coating with good resistance to abrasion and sea water. |
| Recommended use: | As a self-primed heavy duty coating or intermediate coat for immersed and non-immersed areas exposed to abrasion and corrosive climate such as cargo holds, ship hulls, working decks or steel structures where low VOC, fast drying and high film build are required. HEMPADUR EASY 47700 is intended for all year application down to -10°C/14°F and for applications where fast recoating and handling is required. |
| Features: | Excellent anticorrosive and very good mechanical properties. Short drying time. Curing down to -10°C/14°F. |
| Service temperature: | Dry exposure only: Maximum: 120°C/248°F. |
| Certificates/Approvals: | Tested for non-contamination of grain cargo at the Newcastle Occupational Health & Hygiene, Great Britain. Approved as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on www.Hempel.com for further details. |
| Availability: | Part of Group Assortment. Local availability subject to confirmation. |
| PHYSICAL CONSTANTS: | |
| Shade nos/Colours: | 50630*/ Red (see REMARKS overleaf) |
| Finish: | Flat |
| Volume solids, %: | 77 ± 1 |
| Theoretical spreading rate: | 6.2 m ² /l [248.6 sq.ft./US gallon] - 125 micron/5 mils |
| Flash point: | 25 °C [77 °F] |
| Specific gravity: | 1.5 kg/litre [12.3 lbs/US gallon] |
| Dry to touch: | 3 hour(s) , 20°C/68°F 10 hour(s), 5°C/41°F |
| Fully cured: | 5 day(s) , 20°C/68°F 15 day(s), 5°C/41°F |
| VOC content: | 236 g/l [2 lbs/US gallon] <i>*other shades according to assortment list.</i> |
| <i>The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.</i> | |
| APPLICATION DETAILS: | |
| Version, mixed product: | 47700 |
| Mixing ratio: | BASE 47709: CURING AGENT 97702 4 : 1 |
| Application method: | Airless spray / Brush / Roller |
| Thinner (max.vol.): | 08540 (5%) / 08450 (5%) / 08450 (5%) |
| Pot life (Airless spray): | 1 hour(s) , 20°C/68°F |
| Pot life (Brush): | 1.5 hour(s) , 20°C/68°F |
| Nozzle orifice: | 0.017 to 0.023 |
| Nozzle pressure: | 250 bar [3625 psi] (Airless spray data are indicative and subject to adjustment) |
| Cleaning of tools: | HEMPEL'S TOOL CLEANER 99610, HEMPEL'S THINNER 08450 |
| Indicated film thickness, dry: | 125 micron [5 mils] |
| Indicated film thickness, wet: | 175 micron [7 mils] |
| Overcoat interval, min: | see REMARKS overleaf |
| Overcoat interval, max: | see REMARKS overleaf |
| Safety: | Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Safety Data Sheets and follow all local or national safety regulations. |



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SURFACE PREPARATION:

New steel: When used as an intermediate or finishing coat please refer to the data sheet for the preceding GALVOSIL or HEMPADUR primer. When used as a primer please refer to the specification.

Repair and maintenance: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Clean damaged areas thoroughly by power tool cleaning to minimum St 2 (spot-repairs) or by abrasive blasting to min. Sa 2, preferably to Sa 2½ (ISO 8501-1:2007). Improved surface preparation will improve the performance. As an alternative to dry cleaning, water jetting to min. WJ-2 (NACE No. 5/SSPC-SP 12) (or according to specification), may be used. A flash-rust degree of maximum FR-2 (Hempel standard) is acceptable before application. Improved surface preparation will improve the performance of the product. Feather edges to sound and intact areas. Dust off residues.

As an alternative to dry cleaning, water jetting to sound, well adhering coat and/or to steel. Intact coat must appear with roughened surface after the water jetting. By water jetting to steel, cleanliness shall be: Wa 2 -Wa 2½ (atmospheric exposure) / minimum Wa 2½ (immersion) (ISO 8501-4:2006). A flash rust degree of maximum M (atmospheric exposure) / M, preferably L (immersion) (ISO 8501-4:2006) is acceptable before application. Feather edges to sound and intact areas. Dust off residues. Touch up to full film thickness.

On pit-corroded surfaces, excessive amounts of salt residues may call for high pressure water jetting, wet abrasive blasting or, alternatively, dry abrasive blasting, high pressure fresh water hosing, drying, and finally dry abrasive blasting again.

Other substrates: contact Hempel.

APPLICATION CONDITIONS:

Use only where application and drying can proceed at temperatures above: -10°C/14°F. The temperature of paint itself should be 15°C/59°F or above. Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.

PRECEDING COAT:

None or according to specification.

SUBSEQUENT COAT:

None or according to specification.

REMARKS:

Colours/Colour stability:

The natural tendency of epoxy coatings to chalk in outdoor exposure and to become more sensitive to mechanical damage and chemical exposure at elevated temperatures is also reflected in this product. Has a tendency to yellow after application. This has no influence on the performance nor does the yellowing affect any topcoat applied.

Film thicknesses/thinning:

May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and overcoating interval. Normal range dry is: 125 - 200 micron / 5 - 8 mils. May be specified in lower film thickness for which purpose additional thinning is required, please see separate APPLICATION INSTRUCTIONS. **Avoid application of excessive film thicknesses.**

Shades:

This product is available in several aluminium pigmented shades with different volume solids content.

Overcoating:

Overcoating intervals related to later conditions of exposure: If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion. Before overcoating after exposure in contaminated environment, clean the surface thoroughly with high pressure fresh water hosing and allow drying.

A specification supersedes any guideline overcoat intervals indicated in the table.

| Environment | Atmospheric, medium | | | | | |
|-------------|---------------------|------|------------|------|-------------|------|
| | -10°C (14°F) | | 0°C (32°F) | | 20°C (68°F) | |
| | Min | Max | Min | Max | Min | Max |
| HEMPADUR | 18 h | 90 d | 8 h | 56 d | 2 h | 14 d |
| HEMPATEX | 18 h | 72 h | 8 h | 32 h | 2 h | 8 h |
| HEMPATHANE | 18 h | 90 d | 8 h | 40 d | 2 h | 10 d |
| Environment | Immersion | | | | | |
| HEMPADUR | 27 h | 90 d | 12 h | 56 d | 3 h | 14 d |

NR = Not Recommended, Ext. = Extended, m = minute(s), h = hour(s), d = day(s)

Note:

HEMPADUR EASY 47700 For professional use only.

ISSUED BY:

HEMPEL A/S
4770050630



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This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" available on www.hempel.com. Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

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